General

**Material Status** 



# Ryton° R-4-240BL polyphenylene sulfide

Ryton® R-4-240NA and R-4-240BL 40% glass fiber reinforced polyphenylene sulfide compounds provide enhanced mechanical strength and

toughness compared to other polyphenylene sulfide compounds.

13800 MPa

14000 MPa

248 MPa

255 MPa

265 MPa

0.39

Odiffificiolal. Active		
<ul> <li>Asia Pacific</li> </ul>	<ul> <li>Latin America</li> </ul>	
• Europe	North America	
• Glass Fiber, 40% Filler	by Weight	
<ul> <li>Good Strength</li> </ul>	<ul> <li>Good Toughness</li> </ul>	
<ul> <li>Automotive Under the</li> </ul>	Hood	
<ul> <li>RoHS Compliant</li> </ul>		
• Black		
• Pellets		
<ul> <li>Injection Molding</li> </ul>		
	Typical Value Unit	Test method
	1.66	ASTM D792
	0.20 %	
	0.50 %	
	0.020 %	ASTM D570
	Typical Value Unit	Test method
	165 MPa	ASTM D638
	175 MPa	ISO 527-2
	1.7 %	ASTM D638 ISO 527-2
	<ul> <li>Asia Pacific</li> <li>Europe</li> <li>Glass Fiber, 40% Filler</li> <li>Good Strength</li> <li>Automotive Under the</li> <li>RoHS Compliant</li> <li>Black</li> <li>Pellets</li> </ul>	<ul> <li>Asia Pacific</li> <li>Europe</li> <li>Olass Fiber, 40% Filler by Weight</li> <li>Good Strength</li> <li>Good Toughness</li> <li>Automotive Under the Hood</li> <li>ROHS Compliant</li> <li>Black</li> <li>Pellets</li> <li>Injection Molding</li> </ul> Typical Value Unit <ul> <li>1.66</li> </ul> Typical Value Unit <ul> <li>1.66</li> </ul> Typical Value Unit <ul> <li>1.65 MPa</li> <li>175 MPa</li> </ul>

· Commercial: Active

Flexural Strength

Poisson's Ratio

Compressive Strength

ASTM D790

ASTM D790

ASTM D695

ISO 178

ISO 178

ISO 527

## Ryton° R-4-240BL polyphenylene sulfide

Notched Izod Impact   3.18 mm   85 J/m   ASTM D256     9.0 kJ/m²   ISO 180/A	Impact	Typical Value Unit	Test method
Solition   Solition	Notched Izod Impact		
Unnotched Izad Impact         640 J/m         ASTM D4812           3.18 mm         640 J/m²         ASTM D4812            40 kJ/m²         ISO 180           Hardness         Typical Value Unit         Test method           Rockwell Hardness         ASTM D785           M-Scale         99           R-Scale         120           Thermal         Typical Value Unit         Test method           Deflection Temperature Under Load         ASTM D648           1.8 MPa, Unannealed         265 °C           CLTE         ASTM E83I           Flow: -50 to 50°C         2.0E-5 cm/cm/°C           Flow: 100 to 200°C         1.5E-5 cm/cm/°C           Transverse: : 100 to 200°C         9.0E-5 cm/cm/°C           Transverse: : 100 to 200°C         9.0E-5 cm/cm/°C           Thermal Conductivity         0.31 W/m/k           U. Temperature Rating         200 to 220 °C         U. 7468           Electrical         Typical Value Unit         Test method           Surface Resistivity         1.0E+16 ohms cm         ASTM D257           Dielectric Strength         22 kV/mm         ASTM D257           Dielectric Constant         4.0E+16 ohms cm         ASTM D150           25°C, 1 kHz	3.18 mm	•	
3.18 mm		9.0 kJ/m²	ISO 180/A
Hardness   Typical Value Unit   Test method	Unnotched Izod Impact		
Hardness   Typical Value Unit   Test method	3.18 mm	•	ASTM D4812
Rockwell Hardness         ASTM D785           M-Scale         99           R-Scale         120           Thermal         Typical Value Unit         Test method           Deflection Temperature Under Load         265 °C           L18 MPa, Unannealed         265 °C           CLTE         ASTM E83I           Flow: -50 to 50°C         2.0E-5 cm/cm/°C           Flow: 100 to 200°C         1.5E-5 cm/cm/°C           Transverse: -50 to 50°C         4.0E-5 cm/cm/°C           Transverse: 100 to 200°C         9.0E-5 cm/cm/°C           Thermal Conductivity         0.31 W/m/k           UL Temperature Rating         200 to 220 °C         UL 746B           Electrical         Typical Value Unit         Test method           Surface Resistivity         1.0E+16 ohms         ASTM D257           Volume Resistivity         1.0E+16 ohms         ASTM D257           Volume Resistivity         1.0E+16 ohms         ASTM D150           25°C, 1 kHz         3.90         3.50         3.50         3.50         3.50         3.50         3.50         3.50         3.50         3.50         3.50         3.50         3.50         3.50         3.50         3.50         3.50         3.50         3.50         3.50<		40 kJ/m²	ISO 180
Rockwell Hardness         ASTM D785           M-Scale         99           R-Scale         120           Thermal         Typical Value Unit         Test method           Deflection Temperature Under Load         265 °C           L18 MPa, Unannealed         265 °C           CLTE         ASTM E83I           Flow: -50 to 50°C         2.0E-5 cm/cm/°C           Flow: 100 to 200°C         1.5E-5 cm/cm/°C           Transverse: -50 to 50°C         4.0E-5 cm/cm/°C           Transverse: 100 to 200°C         9.0E-5 cm/cm/°C           Thermal Conductivity         0.31 W/m/k           UL Temperature Rating         200 to 220 °C         UL 746B           Electrical         Typical Value Unit         Test method           Surface Resistivity         1.0E+16 ohms         ASTM D257           Volume Resistivity         1.0E+16 ohms         ASTM D257           Volume Resistivity         1.0E+16 ohms         ASTM D150           25°C, 1 kHz         3.90         3.50         3.50         3.50         3.50         3.50         3.50         3.50         3.50         3.50         3.50         3.50         3.50         3.50         3.50         3.50         3.50         3.50         3.50         3.50<	Hardness	Typical Value Unit	Test method
R-Scale         120           Thermal         Typical Value Unit         Test method           Deflection Temperature Under Load         265 °C           1.8 MPa, Unannealed         265 °C           CLTE         ASTM E831           Flow: -50 to 50°C         2.0E-5 cm/cm/°C           Flow: 100 to 200°C         1.5E-5 cm/cm/°C           Transverse: -50 to 50°C         4.0E-5 cm/cm/°C           Transverse: 100 to 200°C         9.0E-5 cm/cm/°C           Thermal Conductivity         0.31 W/m/k           UL Temperature Rating         200 to 220 °C         UL 7468           Electrical         Typical Value Unit         Test method           Surface Resistivity         1.0E+16 ohms·cm         ASTM D257           Volume Resistivity         1.0E+16 ohms·cm         ASTM D257           Dielectric Strength         22 kV/mm         ASTM D257           Dielectric Constant         ASTM D150         25°C, 1 kHz         3.90           25°C, 1 kHz         3.90         25°C, 1 kHz         2.0E-3         25°C, 1 kHz           25°C, 1 kHz         2.0E-3	Rockwell Hardness		
Thermal         Typical Value Unit         Test method           Deflection Temperature Under Load         1.8 MPa, Unannealed         265 °C           CLTE         ASTM D648           Flow: -50 to 50°C         2.0E-5 cm/cm/°C           Flow: 100 to 200°C         1.5E-5 cm/cm/°C           Transverse: -50 to 50°C         4.0E-5 cm/cm/°C           Transverse: 100 to 200°C         9.0E-5 cm/cm/°C           Thermal Conductivity         0.31 W/m/k           UL Temperature Rating         200 to 220 °C         UL 7468           Electrical         Typical Value Unit         Test method           Surface Resistivity         1.0E+16 ohms cm         ASTM D257           Volume Resistivity         1.0E+16 ohms cm         ASTM D257           Dielectric Strength         22 kV/mm         ASTM D159           25°C, 1 kHz         3.90         25°C, 1 kHz           25°C, 1 kHz         3.90         25°C, 1 kHz           25°C, 1 kHz         2.0E-3         25°C, 1 kHz           25°C, 1 kHz         2.0E-3         25°C, 1 kHz           25°C, 1 kHz         2.0E-3         ASTM D495           Comparative Tracking Index (CTI)         175 V         IEC 60112           Comparative Tracking Index (CTI)         PIC 4         UL 746A <td>M-Scale</td> <td>99</td> <td></td>	M-Scale	99	
Deflection Temperature Under Load         ASTM D648           1.8 MPa, Unannealed         265 °C           CLTE         ASTM E831           Flow: -50 to 50°C         2.0E-5 cm/cm/°C           Flow: 100 to 200°C         1.5E-5 cm/cm/°C           Transverse: -50 to 50°C         4.0E-5 cm/cm/°C           Transverse: 100 to 200°C         9.0E-5 cm/cm/°C           Thermal Conductivity         0.31 W/m/k           UL Temperature Rating         200 to 220 °C         UL 7468           Electrical         Typical Value Unit         Test method           Surface Resistivity         1.0E+16 ohms         ASTM D257           Volume Resistivity         1.0E+16 ohms-cm         ASTM D257           Dielectric Strength         22 kV/mm         ASTM D150           25°C, 1 kHz         3.90         25°C, 1 kHz         3.90           25°C, 1 kHz         3.90         25°C, 1 kHz         4.00           Dissipation Factor         ASTM D150         25°C, 1 kHz         2.0E-3           25°C, 1 kHz         2.0E-3         3.90           25°C, 1 kHz <td>R-Scale</td> <td>120</td> <td></td>	R-Scale	120	
Deflection Temperature Under Load         ASTM D648           1.8 MPa, Unannealed         265 °C           CLTE         ASTM E831           Flow: -50 to 50°C         2.0E-5 cm/cm/°C           Flow: 100 to 200°C         1.5E-5 cm/cm/°C           Transverse: -50 to 50°C         4.0E-5 cm/cm/°C           Transverse: 100 to 200°C         9.0E-5 cm/cm/°C           Thermal Conductivity         0.31 W/m/k           UL Temperature Rating         200 to 220 °C         UL 7468           Electrical         Typical Value Unit         Test method           Surface Resistivity         1.0E+16 ohms         ASTM D257           Volume Resistivity         1.0E+16 ohms-cm         ASTM D257           Dielectric Strength         22 kV/mm         ASTM D150           25°C, 1 kHz         3.90         25°C, 1 kHz         3.90           25°C, 1 kHz         3.90         25°C, 1 kHz         4.00           Dissipation Factor         ASTM D150         25°C, 1 kHz         2.0E-3           25°C, 1 kHz         2.0E-3         3.90           25°C, 1 kHz <td>Thermal</td> <td>Typical Value Unit</td> <td>Test method</td>	Thermal	Typical Value Unit	Test method
1.8 MPa, Unannealed         265 °C           CLTE         ASTM E83I           Flow: -50 to 50°C         2.0E-5 cm/cm/°C           Flow: 100 to 200°C         1.5E-5 cm/cm/°C           Transverse: -50 to 50°C         4.0E-5 cm/cm/°C           Thermal Conductivity         9.0E-5 cm/cm/°C           UL Temperature Rating         200 to 220 °C         UL 746B           Electrical         Typical Value Unit         Test method           Surface Resistivity         1.0E+16 ohms         ASTM D257           Volume Resistivity         1.0E+16 ohms·cm         ASTM D257           Dielectric Strength         22 kV/mm         ASTM D150           25°C, 1 kHz         3.90         25°C, 1 kHz           25°C, 1 kHz         3.90         25°C, 1 kHz           25°C, 1 kHz         2.0E-3         25°C, 1 kHz           25°C, 1 MHz         2.0E-3         25°C, 1 kHz           25°C, 1 MHz         2.0E-3         2.0E-3           Arc Resistance         130 sec         ASTM D495           Comparative Tracking Index (CTI)         PLC 4         UL 746A           Insulation Resistance¹ (90°C)         1.0E+12 ohms           Flammability         Typical Value Unit         Test method           Flammability         <		Typical value of the	
CLTE         ASTM E831           Flow: -50 to 50°C         2.0E-5 cm/cm/°C           Flow: 100 to 200°C         1.5E-5 cm/cm/°C           Transverse: -50 to 50°C         4.0E-5 cm/cm/°C           Thermal Conductivity         9.0E-5 cm/cm/°C           UL Temperature Rating         200 to 220 °C         UL 7468           Electrical         Typical Value Unit         Test method           Surface Resistivity         1.0E+16 ohms         ASTM D257           Volume Resistivity         1.0E+16 ohms ohms cm         ASTM D150           Dielectric Strength         22 kV/mm         ASTM D150           25°C, 1 kHz         3.90         25°C, 1 kHz           25°C, 1 kHz         3.90         25°C, 1 kHz           25°C, 1 kHz         2.0E-3         25°C, 1 kHz           25°C, 1 kHz         2.0E-3         2.0E-3           Arc Resistance         130 sec         ASTM D495           Comparative Tracking Index (CTI)         PLC 4         UL 746A           Insulation Resistance 1 (90°C)         1.0E+12 ohms           Flammability <td< td=""><td>•</td><td>265 °C</td><td>7.01.11.20.10</td></td<>	•	265 °C	7.01.11.20.10
Flow: -50 to 50°C         2.0E-5 cm/cm/°C           Flow: 100 to 200°C         1.5E-5 cm/cm/°C           Transverse: -50 to 50°C         4.0E-5 cm/cm/°C           Transverse: 100 to 200°C         9.0E-5 cm/cm/°C           Thermal Conductivity         0.31 W/m/k           UL Temperature Rating         200 to 220 °C         UL 746B           Electrical         Typical Value Unit         Test method           Surface Resistivity         1.0E+16 ohms         ASTM D257           Volume Resistivity         1.0E+16 ohms·cm         ASTM D257           Dielectric Strength         22 kV/mm         ASTM D150           25°C, 1 kHz         3.90         25°C, 1 kHz           25°C, 1 kHz         3.90         25°C, 1 kHz           25°C, 1 kHz         2.0E-3         3.2E-3           25°C, 1 kHz         2.0E-3		200 0	ΔSTM F831
Flow: 100 to 200°C         1.5E-5 cm/cm/°C           Transverse: -50 to 50°C         4.0E-5 cm/cm/°C           Transverse: 100 to 200°C         9.0E-5 cm/cm/°C           Thermal Conductivity         0.31 W/m/k           UL Temperature Rating         200 to 220 °C         UL 746B           Electrical         Typical Value Unit         Test method           Surface Resistivity         1.0E+16 ohms         ASTM D257           Volume Resistivity         1.0E+16 ohms·cm         ASTM D257           Dielectric Strength         22 kV/mm         ASTM D495           Dielectric Constant         ASTM D150           25°C, 1 kHz         3.90         25°C, 1 kHz           25°C, 1 kHz         2.0E-3         ASTM D150           25°C, 1 kHz         2.0E-3         ASTM D150           25°C, 1 kHz         2.0E-3         ASTM D495           25°C, 1 kHz         2.0E-3         ASTM D495           Comparative Tracking Index (CTI)         175 V         IEC 60112           Comparative Tracking Index (CTI)         PLC 4         UL 746A           Insulation Resistance 1 (90°C)         1.0E+12 ohms           Flammability         Typical Value Unit         Test method           Flammability         Typical Value Unit         Test met		2 0F-5 cm/cm/°C	ACTIVIZOO
Transverse : -50 to 50 °C         4.0E-5 cm/cm/°C           Transverse : 100 to 200 °C         9.0E-5 cm/cm/°C           Thermal Conductivity         0.31 W/m/k           UL Temperature Rating         200 to 220 °C         UL 7468           Electrical         Typical Value Unit         Test method           Surface Resistivity         1.0E+16 ohms         ASTM D257           Volume Resistivity         1.0E+16 ohms·cm         ASTM D257           Volume Resistivity         1.0E+16 ohms·cm         ASTM D257           Dielectric Strength         22 kV/mm         ASTM D149           Dielectric Constant         ASTM D150         25°C, 1 kHz         3.90           25°C, 1 kHz         3.90         3.9			
Transverse : 100 to 200°C         9.0E-5 cm/cm/°C           Thermal Conductivity         0.31 W/m/k           UL Temperature Rating         200 to 220 °C         UL 7468           Electrical         Typical Value Unit         Test method           Surface Resistivity         1.0E+16 ohms         ASTM D257           Volume Resistivity         1.0E+16 ohms·cm         ASTM D257           Dielectric Strength         22 kV/mm         ASTM D49           Dielectric Constant         ASTM D150           25°C, 1 kHz         3.90         25°C, 1 kHz           25°C, 1 kHz         3.90         25°C, 1 kHz           25°C, 1 kHz         2.0E-3         25°C, 1 kHz           25°C, 1 kHz         2.0E-3         25°C, 1 kHz           25°C, 1 kHz         2.0E-3         25°C, 1 kHz           25°C, 1 kHz         130 sec         ASTM D495           Comparative Tracking Index (CTI)         175 V         IEC 60112           Comparative Tracking Index (CTI)         PLC 4         UL 746A           Insulation Resistance¹(90°C)         1.0E+12 ohms           Flammability         Typical Value Unit         Test method           Flammability         Typical Value Unit         Test method           V-0         5VA		· · · · · · · · · · · · · · · · · · ·	
Thermal Conductivity         0.31 W/m/k           UL Temperature Rating         200 to 220 °C         UL 7468           Electrical         Typical Value Unit         Test method           Surface Resistivity         1.0E+16 ohms         ASTM D257           Volume Resistivity         1.0E+16 ohms·cm         ASTM D257           Dielectric Strength         22 kV/mm         ASTM D149           Dielectric Constant         ASTM D150           25°C, 1 kHz         3.90         ASTM D150           25°C, 1 kHz         3.90         ASTM D150           25°C, 1 kHz         2.0E-3         ASTM D150           25°C, 1 kHz         2.0E-3         ASTM D495           25°C, 1 kHz         2.0E-3         ASTM D495           Arc Resistance         130 sec         ASTM D495           Comparative Tracking Index (CTI)         175 V         IEC 60112           Comparative Tracking Index (CTI)         PLC 4         UL 746A           Insulation Resistance¹ (90°C)         1.0E+12 ohms           Flammability         Typical Value Unit         Test method           Flame Rating (1.6 mm)         V-0         UL 94		• •	
Electrical         Typical Value Unit         Test method           Surface Resistivity         1.0E+16 ohms         ASTM D257           Volume Resistivity         1.0E+16 ohms om         ASTM D257           Dielectric Strength         22 kV/mm         ASTM D257           Dielectric Constant         22 kV/mm         ASTM D149           Dielectric Constant         3.90         ASTM D150           25°C, 1 kHz         3.90         ASTM D150           25°C, 1 kHz         2.0E-3         ASTM D150           25°C, 1 kHz         2.0E-3         ASTM D150           25°C, 1 kHz         2.0E-3         ASTM D495           Arc Resistance         130 sec         ASTM D495           Comparative Tracking Index (CTI)         175 V         IEC 60112           Comparative Tracking Index (CTI)         PLC 4         UL 746A           Insulation Resistance¹(90°C)         1.0E+12 ohms           Flammability         Typical Value Unit         Test method           Flame Rating (1.6 mm)         5VA         UL 94			
Surface Resistivity         1.0E+16 ohms         ASTM D257           Volume Resistivity         1.0E+16 ohms·cm         ASTM D257           Dielectric Strength         22 kV/mm         ASTM D149           Dielectric Constant         ASTM D149           25°C, 1 kHz         3.90         ASTM D150           25°C, 1 MHz         4.00         ASTM D150           25°C, 1 kHz         2.0E-3         ASTM D150           25°C, 1 kHz         2.0E-3         ASTM D495           Arc Resistance         130 sec         ASTM D495           Comparative Tracking Index (CTI)         175 V         IEC 60112           Comparative Tracking Index (CTI)         PLC 4         UL 746A           Insulation Resistance (90°C)         1.0E+12 ohms           Flammability         Typical Value Unit         Test method           Flammability         V-0         UL 94	· · · · · · · · · · · · · · · · · · ·		UL 746B
Surface Resistivity         1.0E+16 ohms         ASTM D257           Volume Resistivity         1.0E+16 ohms·cm         ASTM D257           Dielectric Strength         22 kV/mm         ASTM D149           Dielectric Constant         ASTM D149           25°C, 1 kHz         3.90         ASTM D150           25°C, 1 MHz         4.00         ASTM D150           25°C, 1 kHz         2.0E-3         ASTM D150           25°C, 1 kHz         2.0E-3         ASTM D495           Arc Resistance         130 sec         ASTM D495           Comparative Tracking Index (CTI)         175 V         IEC 60112           Comparative Tracking Index (CTI)         PLC 4         UL 746A           Insulation Resistance (90°C)         1.0E+12 ohms           Flammability         Typical Value Unit         Test method           Flammability         V-0         UL 94	Floatriage	Typical Value Unit	Test method
Volume Resistivity         1.0E+16 ohms-cm         ASTM D257           Dielectric Strength         22 kV/mm         ASTM D149           Dielectric Constant         ASTM D150           25°C, 1 kHz         3.90           25°C, 1 MHz         4.00           Dissipation Factor         ASTM D150           25°C, 1 kHz         2.0E-3           25°C, 1 MHz         2.0E-3           Arc Resistance         130 sec         ASTM D495           Comparative Tracking Index (CTI)         175 V         IEC 60112           Comparative Tracking Index (CTI)         PLC 4         UL 746A           Insulation Resistance 1 (90°C)         1.0E+12 ohms           Flammability         Typical Value Unit         Test method           Flame Rating (1.6 mm)         V-0         UL 94		* * * * * * * * * * * * * * * * * * * *	
Dielectric Strength  Dielectric Constant  Dielectric Constant  25°C, 1 kHz  25°C, 1 kHz  3.90  25°C, 1 MHz  ASTM D150  Dissipation Factor  25°C, 1 kHz  2.0E-3  25°C, 1 MHz  ASTM D150  25°C, 1 kHz  2.0E-3  Arc Resistance  130 sec  ASTM D495  Comparative Tracking Index (CTI)  175 V  IEC 60112  Comparative Tracking Index (CTI)  PLC 4  UL 746A  Insulation Resistance  Flammability  Typical Value Unit  Test method  Flame Rating (1.6 mm)  UL 94			
Dielectric Constant         ASTM D150           25°C, 1 kHz         3.90           25°C, 1 MHz         4.00           Dissipation Factor         ASTM D150           25°C, 1 kHz         2.0E-3           25°C, 1 MHz         2.0E-3           Arc Resistance         130 sec         ASTM D495           Comparative Tracking Index (CTI)         175 V         IEC 60112           Comparative Tracking Index (CTI)         PLC 4         UL 746A           Insulation Resistance¹(90°C)         1.0E+12 ohms           Flammability         Typical Value Unit         Test method           Flame Rating (1.6 mm)         V-0         UL 94	·		
25°C, 1 kHz       3.90         25°C, 1 MHz       4.00         Dissipation Factor       ASTM D150         25°C, 1 kHz       2.0E-3         25°C, 1 MHz       2.0E-3         Arc Resistance       130 sec       ASTM D495         Comparative Tracking Index (CTI)       175 V       IEC 60112         Comparative Tracking Index (CTI)       PLC 4       UL 746A         Insulation Resistance¹(90°C)       1.0E+12 ohms         Flammability       Typical Value Unit       Test method         Flame Rating (1.6 mm)       V-0       UL 94		22 KV/111111	
25°C, 1 MHz       4.00         Dissipation Factor       ASTM DI50         25°C, 1 kHz       2.0E-3         25°C, 1 MHz       2.0E-3         Arc Resistance       130 sec       ASTM D495         Comparative Tracking Index (CTI)       175 V       IEC 60112         Comparative Tracking Index (CTI)       PLC 4       UL 746A         Insulation Resistance¹ (90°C)       1.0E+12 ohms         Flammability       Typical Value Unit       Test method         Flame Rating (1.6 mm)       V-0       UL 94		3 90	ASTW DISC
Dissipation Factor  25°C, 1 kHz 25°C, 1 MHz 25°C, 1 MHz 2.0E-3  Arc Resistance 130 sec ASTM D495  Comparative Tracking Index (CTI) 175 V IEC 60112  Comparative Tracking Index (CTI) PLC 4 UL 746A  Insulation Resistance¹(90°C) 1.0E+12 ohms  Flammability Typical Value Unit Test method  V-0 Flame Rating (1.6 mm) UL 94			
25°C, 1 kHz       2.0E-3         25°C, 1 MHz       2.0E-3         Arc Resistance       130 sec       ASTM D495         Comparative Tracking Index (CTI)       175 V       IEC 60112         Comparative Tracking Index (CTI)       PLC 4       UL 746A         Insulation Resistance¹ (90°C)       1.0E+12 ohms         Flammability       Typical Value Unit       Test method         Flame Rating (1.6 mm)       V-0       UL 94			ASTM D150
25°C, 1 MHz         2.0E-3           Arc Resistance         130 sec         ASTM D495           Comparative Tracking Index (CTI)         175 V         IEC 60112           Comparative Tracking Index (CTI)         PLC 4         UL 746A           Insulation Resistance¹ (90°C)         1.0E+12 ohms           Flammability         Typical Value Unit         Test method           Flame Rating (1.6 mm)         V-0         UL 94	·	2.0E-3	
Arc Resistance 130 sec ASTM D495 Comparative Tracking Index (CTI) 175 V IEC 60112 Comparative Tracking Index (CTI) PLC 4 UL 746A Insulation Resistance¹ (90°C) 1.0E+12 ohms  Flammability Typical Value Unit Test method Flame Rating (1.6 mm) V-0 5VA UL 94			
Comparative Tracking Index (CTI)  Comparative Tracking Index (CTI)  PLC 4  UL 746A  Insulation Resistance¹ (90°C)  Flammability  Typical Value Unit  V-0  5VA  UL 94			ASTM D495
Comparative Tracking Index (CTI)  Insulation Resistance¹ (90°C)  Flammability  PLC 4  UL 746A  1.0E+12 ohms  Typical Value Unit  Test method  V-0  V-0  SVA  UL 94			
Insulation Resistance¹ (90°C)  1.0E+12 ohms  Flammability  Typical Value Unit  V-0  V-0  SVA  UL 94	<u> </u>		
Flame Rating (1.6 mm)  • V-0  5VA  UL 94			
Flame Rating (1.6 mm)  • V-0  5VA  UL 94	Elammahility	Typical Value Unit	Test method
Flame Rating (I.6 mm)  • 5VA			
Oxygen Index 54 % ASTM D2863	Flame Rating (1.6 mm)		UL 94
	Oxygen Index	54 %	ASTM D2863

### Ryton° R-4-240BL polyphenylene sulfide

Injection	Typical Value Unit
Drying Temperature	135 to 150 °C
Drying Time	2.0 to 4.0 hr
Rear Temperature	295 to 315 °C
Middle Temperature	305 to 325 °C
Front Temperature	315 to 345 °C
Nozzle Temperature	305 to 325 °C
Processing (Melt) Temp	320 to 330 °C
Mold Temperature	135 to 150 °C

### **Notes**

Typical properties: these are not to be construed as specifications.

### www.syensqo.com

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<sup>&</sup>lt;sup>1</sup> 95%RH, 48 hr