



DRAKE
PLASTICS LTD CO.

AS9100D and ISO 9001
CERTIFIED

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CERTIFICATION

4/22/2022

TO WHOM IT MAY CONCERN AT
ABC Plastics, Inc.
123 Main Street N.
Cypress, TX 77429

P.O. NO. 12345

THIS WILL CERTIFY THAT THE:

DESCRIPTION	BATCH #	RUN #
VICTREX PEEK ROD 450CA30 1.0" Dia.	V079744	010122-1200

WAS PRODUCED WITH RESIN THAT MEETS THE REQUIREMENTS OF MIL-P-46183
TYPE III, CLASS 2 (VALIDATION NOTICE / DATED 28 JUNE 2004) AND EXTRUDED SHAPE
COMPLIES WITH MINIMUM REQUIREMENTS OF ASTM D6262, TYPE 01 CLASS 3, GRADE 1.

HAS A SPECIFIC GRAVITY RANGE OF 1.38 - 1.42.

FURTHER, IT MEETS DRAKE PLASTICS' QUALITY STANDARDS AND HAS BEEN ANNEALED.

BENITA ENGLE, QUALITY DIRECTOR
DRAKE PLASTICS LTD. CO.

QUALITY REPRESENTATIVE



Certificate of Analysis

(Certificate conforms to EN 10204:2004, type 3.1)

Item description: VICTREX™ PEEK Polymer 450CA30 - Box 25kg	Batch number: V079744
Sales order number: SO020745VUSA	Customer reference: 8429
Item number: 400001	Manufacturing date: 03 October, 2021

Property	Test method	Unit	Specification	Test result
Flexural Modulus	ASTM D790	GPa	≥ 19.00	22.67
Flexural Strength	ASTM D790	MPa	≥ 340.00	369.08
Impact Strength (Notched Izod)	ASTM D256	J/m	≥ 95.00	118.89
Tensile Elongation at Break	ASTM D638	%	≥ 1.30	1.66
Tensile Strength	ASTM D638	MPa	≥ 225.00	242.56
Tensile Young's Modulus	ASTM D638	GPa	≥ 15.20	26.72
Uniformity of Colour (Compounds)	TM-VX-11	-	PASS	Pass
Extraneous Contamination	TM-VX-11C	-	PASS	Pass
Filler content	ASTM D3171/D5630	%	28.50 - 32.50	30.91
Granule Cut	TM-VX-11D	-	PASS	Pass
Flexural Modulus	ISO 178	GPa	≥ 21.00	22.90
Flexural Strength	ISO 178	MPa	≥ 340.00	355.39
Impact Strength (Notched Izod)	ISO 180	kJ/m2	≥ 8.40	9.05
Tensile Elongation (at Break)	ISO 527	%	≥ 1.30	1.63
Tensile Strength	ISO 527	MPa	≥ 225.00	245.26
Melt Stability	TM-VX-12C	%	≤ 10.00	0.60
Moisture Content (Granule)	TM-VX-38	%	≤ 0.25	0.18
Melt Viscosity	TM-VX-12A	kNs/m2	0.750 - 1.150	0.937
Specific Gravity	ASTM D792 / ISO 1183	g/cm3	1.380 - 1.420	1.41

----- Not Applicable -----

----- Not Applicable -----

1. Moisture is measured at time of packing.
 PEEK is hygroscopic so may absorb moisture during storage and therefore should be dried before use
 2. Nominal Granule Dimensions and Appearance
 (a) Dimensions, length 2.0 - 4.0 mm, diameter 2.0 - 3.5 mm.
 (b) Granules to be crystalline in appearance and essentially of uniform cut and colour.
 (c) Granules are dusted with a nominal 0.01% Calcium Stearate as a processing lubricant.

THIS BATCH CONFORMS TO CURRENT SPECIFICATION REF S12

NOT FOR HUMAN IMPLANTATION
NOT FOR PERMANENT ORAL/DENTAL CONTACT
NOT FOR BLOOD AND TISSUE CONTACT OF 24 HOURS OR MORE

Manufactured in the UK under a Quality System approved to ISO 9001 by Victrex Manufacturing Limited, Victrex Technology Centre, Hillhouse International, Thornton-Cleveleys Lancashire FY5 4QD, UK. VICTREX is a registered trademark of Victrex Manufacturing Limited



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Digitally Approved by: Christopher Tyler
Senior Process Technologist

Date CofA generated: 25 January, 2022

Approved Date 15 October, 2021