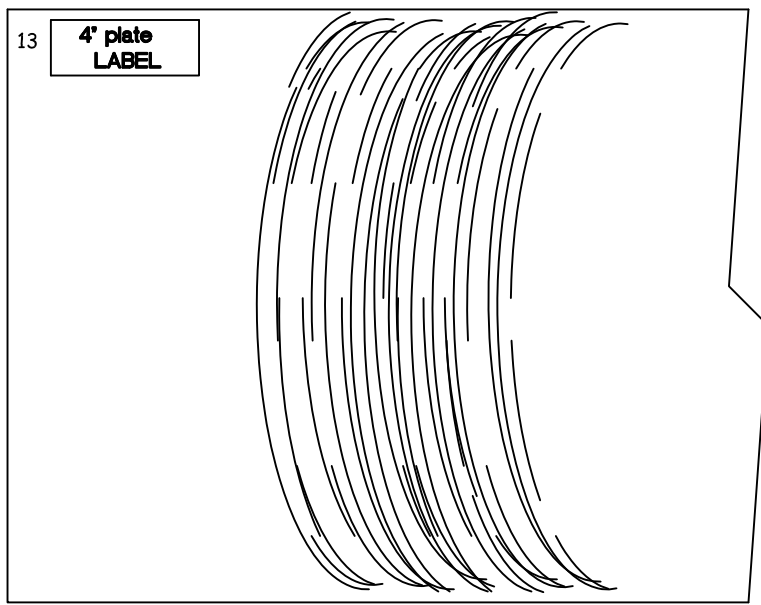


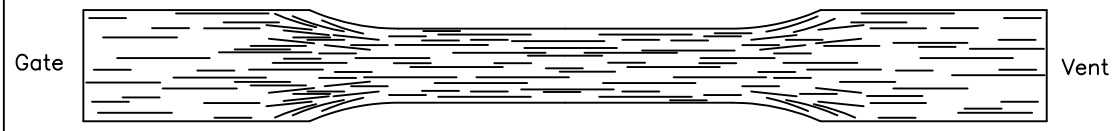
← Extrusion Direction



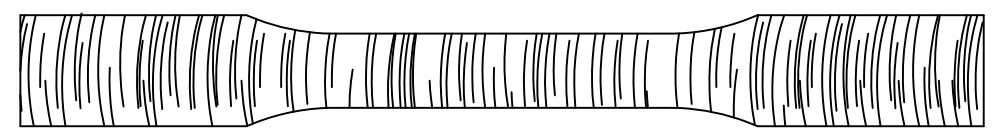
# Fiber Orientation

ASTM D638 Type 1 TENSILE BAR

Injection Molded Tensile Bar



Machined from Extruded Stock



**Notes:**

Tensile & Flex Specimens machined from many extruded shapes are cross flow. The results will be lower strength & modulus, but higher elongation even though fibers are cut and exposed by machining.

This does not indicate inferior material, but simply cross flow properties.

Small diameter rods, where fibers are more in the pull direction (1/2" and smaller) will typically exhibit properties very similar to the resin cert. Molded Tensile & Flex Bars represent a resins properties in the "most favorable light"; ideal fiber alignment through the neck with excellent surface finishes and no broken fibers from machining.

Unless your part is a tensile bar used in the length direction, don't expect data sheet properties from actual molded or extruded fiber filled parts.



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Drawn By: Art	SIZE	FSCM NO.	DWG NO.	Fiber Orientation Drawing	REV
Date	SCALE 1=1	Material	SHEET		