

A. Schulman POLYPUR™ FPU 1156 Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Molded , Polyurethane, TP

Material Notes:

Information provided by A. Schulman.

Order this product through the following link:

http://www.lookpolymers.com/polymer_A-Schulman-POLYPUR-FPU-1156-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.44 g/cc	1.44 g/cc	ASTM D792
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	48 hr, at 80 and 121°C; ASTM D955
	@Thickness 3.20 mm	@Thickness 0.126 in	
	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	72 hr; ASTM D955
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	15 sec delay; ASTM D2240
Tensile Strength at Break	48.0 MPa	6960 psi	2 in/min; ASTM D638
Elongation at Break	30 %	30 %	2 in/min; ASTM D412
Flexural Modulus	1.725 GPa	250.2 ksi	1.3 mm/min; ASTM D790
Izod Impact, Notched	5.65 J/cm	10.6 ft-lb/in	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	18.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	10.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ASTM E831
	@Temperature -30.0 - 30.0 $^\circ\text{C}$	@Temperature -22.0 - 86.0 $^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	105 $^\circ\text{C}$	221 $^\circ\text{F}$	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	94.0 $^\circ\text{C}$	201 $^\circ\text{F}$	ASTM D648

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