

A. Schulman POLYPUR™ FPU 1380 Thermoplastic Polyurethane Compound

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-1380-Thermoplastic-Polyurethane-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	72 hr; ASTM D955
	@Thickness 3.20 mm	@Thickness 0.126 in	
	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	48 hr at 80°C; ASTM D955
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	67	67	ASTM D2240
Tensile Strength at Break	30.0 MPa	4350 psi	2 in/min; ASTM D638
Elongation at Break	15 %	15 %	2 in/min; ASTM D412
Flexural Modulus	0.900 GPa	131 ksi	1.3 mm/min at 70°C
	1.38 GPa	200 ksi	1.3 mm/min; ASTM D790
Izod Impact, Notched	2.15 J/cm	4.03 ft-lb/in	ASTM D256
Tear Strength	100 kN/m	571 pli	2 in/min; ASTM D624

Thermal Properties	Metric	English	Comments
Melting Point	215 °C	419 °F	DSC 10°C/min
Deflection Temperature at 0.46 MPa (66 psi)	85.0 °C	185 °F	ASTM D648

Descriptive Properties	Value	Comments
Heat Sag	8 mm	ASTM D3769, 1 hr at 80°C, 6 in. overhang

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