

A. Schulman POLYPUR™ FPU 1377 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-1377-Thermoplastic-Polyurethane-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 g/cc	ASTM D792
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	48 hr at 80°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	
	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	48 hr at 121°C; ASTM D955
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	55	55	15 sec delay; ASTM D2240
Tensile Strength, Ultimate	27.0 MPa	3920 psi	at max load; ASTM D638
Elongation at Break	30 %	30 %	ASTM D412
Flexural Modulus	0.690 GPa	100 ksi	tangent; ASTM D790
Izod Impact, Notched	4.20 J/cm	7.87 ft-lb/in	ASTM D256
Tear Strength	100 kN/m	571 pli	ASTM D624

Thermal Properties	Metric	English	Comments
CTE, linear	27.0 µm/m-°C	15.0 µin/in-°F	3.45 mm/mm; ASTM D696
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
Melting Point	210 °C	410 °F	by DSC, 10°C per 210 minutes
Deflection Temperature at 0.46 MPa (66 psi)	77.0 °C	171 °F	ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Descriptive Properties	Value	Comments
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Heat Sag Descriptive Properties	30 mm Value	ASTM D3769, 1 hr at 80°C Comments
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