

A. Schulman POLYPUR™ FPU 1550 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-1550-Thermoplastic-Polyurethane-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	48 hr at 80°C; ASTM D955
	@Thickness 3.20 mm	@Thickness 0.126 in	
	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	72 hr; ASTM D955
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D785
Hardness, Shore D	75	75	15 sec delay; ASTM D2240
Tensile Strength, Ultimate	55.0 MPa	7980 psi	at max load; ASTM D638
Elongation at Break	100 %	100 %	ASTM D638
Elongation at Yield	4.0 %	4.0 %	ASTM D638
Flexural Modulus	2.30 GPa	334 ksi	tangent; ASTM D790
Izod Impact, Notched	0.170 J/cm	0.318 ft-lb/in	ASTM D256
	0.0400 J/cm	0.0749 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	0.0500 J/cm	0.0937 ft-lb/in	ASTM D256
	@Temperature 0.000 °C	@Temperature 32.0 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	85.0 °C	185 °F	ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	75.0 °C	167 °F	ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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