

A. Schulman POLYPUR™ FPU 1109 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-1109-Thermoplastic-Polyurethane-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792
Linear Mold Shrinkage	0.0090 - 0.014 cm/cm	0.0090 - 0.014 in/in	72 hr; ASTM D955
	@Thickness 3.20 mm	@Thickness 0.126 in	
	0.011 - 0.016 cm/cm	0.011 - 0.016 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	38.0 MPa	5510 psi	at max load; ASTM D638
Elongation at Break	450 %	450 %	20 in/min; ASTM D412
Flexural Modulus	0.125 GPa	18.1 ksi	1.3 mm/min; ASTM D790
Tear Strength	20.2 kN/m	115 pli	2 in/min; ASTM D624
Compression Set	30 %	30 %	Method B, 22 h, 23°C; ASTM D395

Thermal Properties	Metric	English	Comments
CTE, linear	120 µm/m-°C	66.7 µin/in-°F	ASTM E831
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	

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