

Alliance Polymers Zythane™ 5060A Thermoplastic Polyurethane Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane TPE

Material Notes:

Zythane™ 5060A is a polycaprolactone-based TPU specifically formulated for injection molding applications .It exhibits excellent low compression set, abrasion resistance and toughness and has good hydrolytic stability, oil, fuel and solvent resistance. It is supplied uncolored in pellet form. Availability: North America Features: Fuel Resistant, Good Toughness, Oil Resistant, Hydrolytically Stable, Solvent Resistant, Good Abrasion Resistance Appearance: Colorless Forms: Pellets Processing Method: Injection Molding and Extrusion Information provided by Alliance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Alliance-Polymers-Zythane-5060A-Thermoplastic-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	60	60	ASTM D2240
Tensile Strength at Break	25.0 MPa	3630 psi	ASTM D412
Tensile Stress	2.00 MPa @Strain 100 %	290 psi @Strain 100 %	ASTM D412
	5.00 MPa @Strain 300 %	725 psi @Strain 300 %	ASTM D412
Elongation at Break	850 %	850 %	ASTM D412
Tear Strength	35.1 kN/m	200 pli	Die C; ASTM D412
Taber Abrasion, mg/1000 Cycles	30	30	ASTM D1044
Abrasion	45	45	mm ³ ; DIN 53516
Compression Set	18 % @Temperature 22.8 °C, Time 79200 sec	18 % @Temperature 73.0 °F, Time 22.0 hour	ASTM D3995B
	33 % @Temperature 70.0 °C, Time 259000 sec	33 % @Temperature 158 °F, Time 72.0 hour	ASTM D3995B

Thermal Properties	Metric	English	Comments
Vicat Softening Point	77.8 °C	172 °F	ASTM D1525

Brittleness Temperature Thermal Properties	-45.0 °C Metric	-49.0 °F English	ASTM D746 Comments
Flammability, UL94	HB	HB	
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Processing Properties	Metric	English	Comments
Processing Temperature	190 °C	374 °F	Gate Temperature; Extrusion
	190 - 195 °C	374 - 383 °F	Injection
Rear Barrel Temperature	165 °C	329 °F	Injection
Middle Barrel Temperature	180 °C	356 °F	Injection
Front Barrel Temperature	195 °C	383 °F	Injection
Nozzle Temperature	195 - 200 °C	383 - 392 °F	Injection
Zone 1	160 °C	320 °F	Extrusion
Zone 2	175 °C	347 °F	Extrusion
Zone 3	190 °C	374 °F	Extrusion
Die Temperature	195 °C	383 °F	Extrusion
Mold Temperature	25.0 - 60.0 °C	77.0 - 140 °F	Injection
Injection Velocity	>= 10.0 mm/sec	>= 0.394 in/sec	Injection
Drying Temperature	85.0 °C	185 °F	Injection
	85.0 °C	185 °F	Extrusion
Dry Time	4.00 hour	4.00 hour	Injection
	4.00 hour	4.00 hour	Extrusion
Back Pressure	0.500 - 1.00 MPa	72.5 - 145 psi	Injection
Clamp Pressure	40.0 - 70.3 MPa	5800 - 10200 psi	Injection
Screw Speed	60 - 200 rpm	60 - 200 rpm	Injection

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