

Alliance Polymers Zythane™ 3045D Thermoplastic Polyurethane Elastomer

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

Material Notes:

Zythane™ 3045D 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 AmericaFeatures: Fuel Resistant, Hydrolytically Stable, Solvent Resistant, Good Abrasion Resistance, Low Compression Set, Good Toughness and Oil Resistant Appearance: ColorlessForms: PelletsProcessing Method: Injection MoldingInformation provided by Alliance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Alliance-Polymers-Zythane-3045D-Thermoplastic-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	95	95	ASTM D2240
Hardness, Shore D	45	45	ASTM D2240
Tensile Strength at Break	51.0 MPa	7400 psi	ASTM D412
Tensile Stress	14.0 MPa @Strain 100 %	2030 psi @Strain 100 %	ASTM D412
	31.0 MPa @Strain 300 %	4500 psi @Strain 300 %	ASTM D412
Elongation at Break	450 %	450 %	ASTM D412
Tear Strength	145 kN/m	828 pli	Die C; ASTM D412
Taber Abrasion, mg/1000 Cycles	48	48	ASTM D1044
Abrasion	44	44	mm ³ ; DIN 53516
Compression Set	12 % @Temperature 22.8 °C, Time 79200 sec	12 % @Temperature 73.0 °F, Time 22.0 hour	ASTM D3995B
	17 % @Temperature 70.0 °C, Time 259000 sec	17 % @Temperature 158 °F, Time 72.0 hour	ASTM D3995B

Thermal Properties	Metric	English	Comments
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Vicat Softening Point Thermal Properties	128 °C Metric	262 °F English	ASTM D1525 Comments
Brittleness Temperature	-25.0 °C	-13.0 °F	ASTM D746
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	215 - 225 °C	419 - 437 °F	Injection
Rear Barrel Temperature	190 °C	374 °F	Injection
Middle Barrel Temperature	205 °C	401 °F	Injection
Front Barrel Temperature	210 °C	410 °F	Injection
Nozzle Temperature	215 - 225 °C	419 - 437 °F	Injection
Mold Temperature	40.0 - 70.0 °C	104 - 158 °F	Injection
Injection Velocity	>= 10.0 mm/sec	>= 0.394 in/sec	Injection
Drying Temperature	85.0 °C	185 °F	Injection
Dry Time	4.00 hour	4.00 hour	Injection
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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