

LG Chemical KEYFLEX BT 1068D Ester Type TPE

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyester, TP , Polyester Thermoplastic Elastomer

Material Notes:

Description: Injection Molding, TPC-ET, General Purpose, High Modulus
 Application: Injection Parts for Automotives, Leisure & Sports
 CAS: 37282-12-5
 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-KEYFLEX-BT-1068D-Ester-Type-TPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 g/cc	ASTM D792
Water Absorption	0.30 % @Temperature 23.0 Â°C, Time 86400 sec	0.30 % @Temperature 73.4 Â°F, Time 24.0 hour	ASTM D570
Molecular Weight	458.458 g/mol	458.458 g/mol	
Maximum Moisture Content	0.010	0.010	Injection Molding
	0.010	0.010	Extrusion Molding
Linear Mold Shrinkage, Flow	0.014 - 0.018 cm/cm @Thickness 3.20 mm	0.014 - 0.018 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	27 g/10 min @Load 2.16 kg, Temperature 240 Â°C	27 g/10 min @Load 4.76 lb, Temperature 464 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ASTM D2240
Tensile Strength at Break	44.1 MPa @Thickness 2.00 mm	6400 psi @Thickness 0.0787 in	50mm/min; ASTM D638
Tensile Strength, Yield	22.6 MPa @Thickness 2.00 mm	3270 psi @Thickness 0.0787 in	50mm/min; ASTM D638
Elongation at Break	400 % @Thickness 2.00 mm	400 % @Thickness 0.0787 in	50mm/min; ASTM D638
Flexural Modulus	0.422 GPa @Thickness 6.40 mm	61.2 ksi @Thickness 0.252 in	15mm/min; ASTM D790
	0.490 J/cm	0.918 ft-lb/in	

Impact Mechanical Properties	Metric	English	Comments
	@ Thickness 6.40 mm, Temperature -40.0 Â°C	@ Thickness 0.252 in, Temperature -40.0 Â°F	
	1.96 J/cm	3.67 ft-lb/in	ASTM D256
	@Thickness 6.40 mm, Temperature 23.0 Â°C	@Thickness 0.252 in, Temperature 73.4 Â°F	
Tear Strength	162 kN/m	924 pli	50mm/min, at Break; ASTM D624

Thermal Properties	Metric	English	Comments
Melting Point	215 Â°C	419 Â°F	Peak
Boiling Point	140 - 230 Â°C	284 - 446 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	125 Â°C	257 Â°F	Unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Flash Point	300 - 340 Â°C	572 - 644 Â°F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	ASTM D257
Dielectric Strength	26.0 kV/mm	660 kV/in	ASTM D149
	@Thickness 1.00 mm	@Thickness 0.0394 in	
Comparative Tracking Index	600 V	600 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	215 - 235 Â°C	419 - 455 Â°F	Injection Molding
Middle Barrel Temperature	225 - 245 Â°C	437 - 473 Â°F	Injection Molding
Front Barrel Temperature	230 - 250 Â°C	446 - 482 Â°F	Injection Molding
Nozzle Temperature	230 - 250 Â°C	446 - 482 Â°F	Injection Molding
Zone 1	215 - 235 Â°C	419 - 455 Â°F	Extrusion Molding
Zone 2	220 - 240 Â°C	428 - 464 Â°F	Extrusion Molding
Zone 3	225 - 245 Â°C	437 - 473 Â°F	Extrusion Molding
Zone 4	230 - 250 Â°C	446 - 482 Â°F	Extrusion Molding
Adapter Temperature	230 - 250 Â°C	446 - 482 Â°F	Extrusion Molding
Die Temperature	220 - 250 Â°C	428 - 482 Â°F	Extrusion Molding

Melt Temperature Processing Properties	215 - 240 Â°C Metric	419 - 464 Â°F English	Injection Molding Comments
	215 - 240 Â°C	419 - 464 Â°F	Extrusion Molding
Mold Temperature	40.0 - 60.0 Â°C	104 - 140 Â°F	Injection Molding
Drying Temperature	80.0 - 90.0 Â°C	176 - 194 Â°F	Injection Molding
	80.0 - 90.0 Â°C	176 - 194 Â°F	Extrusion Molding
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	Injection Molding
	3.00 - 4.00 hour	3.00 - 4.00 hour	Extrusion Molding

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