

LG Chemical KEYFLEX BT 3047D Ester Type TPE

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

Material Notes:

Description: Injection Molding, TPC-ET, Functional, Fast Molding, Medium ModulusApplication: Injection Parts for Leisure & SportsCAS: 37282-12-5Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-KEYFLEX-BT-3047D-Ester-Type-TPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
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
Melt Flow	20 g/10 min @Load 2.16 kg, Temperature 230 Â°C	20 g/10 min @Load 4.76 lb, Temperature 446 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	45	45	ASTM D2240
Tensile Strength at Break	20.6 MPa @Thickness 2.00 mm	2990 psi @Thickness 0.0787 in	50mm/min; ASTM D638
Elongation at Break	500 % @Thickness 2.00 mm	500 % @Thickness 0.0787 in	50mm/min; ASTM D638
Flexural Modulus	0.127 GPa @Thickness 6.40 mm	18.5 ksi @Thickness 0.252 in	15mm/min; ASTM D790
Izod Impact, Notched	1.96 J/cm @Thickness 6.40 mm, Temperature -40.0 Â°C	3.67 ft-lb/in @Thickness 0.252 in, Temperature -40.0 Â°F	ASTM D256
	NB @Thickness 6.40 mm, Temperature 23.0 Â°C	NB @Thickness 0.252 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	215 Â°C	419 Â°F	Peak

Boiling Point Thermal Properties	140 - 230 Â°C Metric	284 - 446 Â°F English	Comments
Flash Point	300 - 340 Â°C	572 - 644 Â°F	

Electrical Properties	Metric	English	Comments
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	215 - 235 Â°C	419 - 455 Â°F	Extrusion Molding
Zone 3	220 - 240 Â°C	428 - 464 Â°F	Extrusion Molding
Zone 4	225 - 245 Â°C	437 - 473 Â°F	Extrusion Molding
Adapter Temperature	225 - 245 Â°C	437 - 473 Â°F	Extrusion Molding
Die Temperature	215 - 255 Â°C	419 - 491 Â°F	Extrusion Molding
Melt Temperature	215 - 245 Â°C	419 - 473 Â°F	Injection Molding
	215 - 245 Â°C	419 - 473 Â°F	Extrusion Molding
Mold Temperature	30.0 - 50.0 Â°C	86.0 - 122 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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