

LG Chemical KEYFLEX BT 10288D Ester Type TPE

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

Material Notes:

Description: Injection Molding, TPC-ET, General Purpose, Low Modulus
 Application: Automotive Interior, Soft Touch Grips
 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-10288D-Ester-Type-TPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Water Absorption	0.80 % @Temperature 23.0 Â°C, Time 86400 sec	0.80 % @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	0.0040 - 0.0080 cm/cm @Thickness 3.20 mm	0.0040 - 0.0080 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	25 g/10 min @Load 2.16 kg, Temperature 230 Â°C	25 g/10 min @Load 4.76 lb, Temperature 446 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	75	75	ASTM D2240
Hardness, Shore D	25	25	ASTM D2240
Tensile Strength at Break	19.6 MPa @Thickness 2.00 mm	2840 psi @Thickness 0.0787 in	50mm/min; ASTM D638
Elongation at Break	900 % @Thickness 2.00 mm	900 % @Thickness 0.0787 in	50mm/min; ASTM D638
Izod Impact, Notched	NB @Thickness 6.40 mm, Temperature 23.0 Â°C	NB @Thickness 0.252 in, Temperature 73.4 Â°F	ASTM D256
	NB	NB	

Mechanical Properties	Metric @Thickness 6.40 mm, Temperature -40.0 Â°C	English @Thickness 0.252 in, Temperature -40.0 Â°F	ASTM D256 Comments
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Thermal Properties	Metric	English	Comments
Melting Point	155 Â°C	311 Â°F	Peak
Boiling Point	140 - 230 Â°C	284 - 446 Â°F	
UL RTI, Electrical	50.0 Â°C	122 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	50.0 Â°C	122 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical with Impact	50.0 Â°C	122 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	50.0 Â°C	122 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical without Impact	50.0 Â°C	122 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	50.0 Â°C	122 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
Flammability, UL94	HB	HB	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	HB	HB	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
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	170 - 190 Â°C	338 - 374 Â°F	Injection Molding
Middle Barrel Temperature	180 - 200 Â°C	356 - 392 Â°F	Injection Molding
Front Barrel Temperature	190 - 210 Â°C	374 - 410 Â°F	Injection Molding

Processing Properties	Metric	English	Comments
Nozzle Temperature	190 - 210 Â°C	374 - 410 Â°F	Injection Molding
Zone 1	160 - 180 Â°C	320 - 356 Â°F	Extrusion Molding
Zone 2	170 - 190 Â°C	338 - 374 Â°F	Extrusion Molding
Zone 3	180 - 200 Â°C	356 - 392 Â°F	Extrusion Molding
Zone 4	180 - 200 Â°C	356 - 392 Â°F	Extrusion Molding
Adapter Temperature	180 - 200 Â°C	356 - 392 Â°F	Extrusion Molding
Die Temperature	170 - 210 Â°C	338 - 410 Â°F	Extrusion Molding
Melt Temperature	160 - 200 Â°C	320 - 392 Â°F	Injection Molding
	160 - 200 Â°C	320 - 392 Â°F	Extrusion Molding
Mold Temperature	10.0 - 35.0 Â°C	50.0 - 95.0 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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