

LG Chemical KEYFLEX BT 2140D Ester Type TPE

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

Material Notes:

Description: Injection Molding, TPC-ET, Specialty, Low Modulus
 Application: Films & Sheets
 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-2140D-Ester-Type-TPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ASTM D792
Water Absorption	0.60 % @Temperature 23.0 Å°C, Time 86400 sec	0.60 % @Temperature 73.4 Å°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
Melt Flow	5.0 g/10 min @Load 2.16 kg, Temperature 230 Å°C	5.0 g/10 min @Load 4.76 lb, Temperature 446 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	95	95	ASTM D2240
Hardness, Shore D	39	39	ASTM D2240
Tensile Strength at Break	29.1 MPa @Thickness 2.00 mm	4220 psi @Thickness 0.0787 in	50mm/min; ASTM D638
Elongation at Break	700 % @Thickness 2.00 mm	700 % @Thickness 0.0787 in	50mm/min; ASTM D638
Flexural Modulus	0.0588 GPa @Thickness 6.40 mm	8.53 ksi @Thickness 0.252 in	15mm/min; ASTM D790
Izod Impact, Notched	NB @Thickness 6.40 mm, Temperature 23.0 Å°C	NB @Thickness 0.252 in, Temperature 73.4 Å°F	ASTM D256
	NB	NB	

Mechanical Properties	@Thickness 6.40 mm, Metric Temperature -40.0 Â°C	@Thickness 0.252 in, English Temperature -40.0 Â°F	ASTM D256 Comments
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Thermal Properties	Metric	English	Comments
Melting Point	200 Â°C	392 Â°F	Peak
Boiling Point	140 - 230 Â°C	284 - 446 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	70.0 Â°C @Thickness 6.40 mm	158 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
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	210 - 230 Â°C	410 - 446 Â°F	Injection Molding
Middle Barrel Temperature	220 - 240 Â°C	428 - 464 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	210 - 230 Â°C	410 - 446 Â°F	Extrusion Molding
Zone 2	220 - 240 Â°C	428 - 464 Â°F	Extrusion Molding
Zone 3	220 - 240 Â°C	428 - 464 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 - 260 Â°C	428 - 500 Â°F	Extrusion Molding
Melt Temperature	200 - 250 Â°C	392 - 482 Â°F	Injection Molding
	200 - 250 Â°C	392 - 482 Â°F	Extrusion Molding
Mold Temperature	20.0 - 40.0 Â°C	68.0 - 104 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

Processing Properties

Metric

English

Comments

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