

LG Chemical KEYFLEX BT GN7155F Ester Type TPE

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

Material Notes:

Description: Extrusion Molding, TPC-ET, Halogen Free Flame Retardant, Medium ModulusApplication: Cable & Wire Jackets, Hose & Tubing, SheetInformation provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-KEYFLEX-BT-GN7155F-Ester-Type-TPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ASTM D792
Maximum Moisture Content	0.010	0.010	Injection Molding
	0.010	0.010	Extrusion Molding
Melt Flow	10 g/10 min @Load 2.16 kg, Temperature 230 Â°C	10 g/10 min @Load 4.76 lb, Temperature 446 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	56	56	ASTM D2240
Tensile Strength at Break	22.6 MPa @Thickness 2.00 mm	3280 psi @Thickness 0.0787 in	50mm/min; ASTM D638
Elongation at Break	250 % @Thickness 2.00 mm	250 % @Thickness 0.0787 in	50mm/min; ASTM D638
Flexural Modulus	0.245 GPa @Thickness 6.40 mm	35.6 ksi @Thickness 0.252 in	15mm/min; ASTM D790
Izod Impact, Notched	1.47 J/cm @Thickness 6.40 mm, Temperature 23.0 Â°C	2.76 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	200 Â°C	392 Â°F	Peak

Electrical Properties	Metric	English	Comments
Dielectric Strength	24.0 kV/mm @Thickness 1.00 mm	610 kV/in @Thickness 0.0394 in	ASTM D149

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	200 - 220 Â°C	392 - 428 Â°F	Injection Molding
Middle Barrel Temperature	210 - 230 Â°C	410 - 446 Â°F	Injection Molding
Front Barrel Temperature	220 - 240 Â°C	428 - 464 Â°F	Injection Molding
Nozzle Temperature	220 - 240 Â°C	428 - 464 Â°F	Injection Molding
Zone 1	200 - 220 Â°C	392 - 428 Â°F	Extrusion Molding
Zone 2	210 - 230 Â°C	410 - 446 Â°F	Extrusion Molding
Zone 3	215 - 235 Â°C	419 - 455 Â°F	Extrusion Molding
Zone 4	220 - 240 Â°C	428 - 464 Â°F	Extrusion Molding
Adapter Temperature	220 - 240 Â°C	428 - 464 Â°F	Extrusion Molding
Die Temperature	210 - 250 Â°C	410 - 482 Â°F	Extrusion Molding
Melt Temperature	200 - 240 Â°C	392 - 464 Â°F	Injection Molding
	200 - 240 Â°C	392 - 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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