

LG Chemical KEYFLEX BT HB9242D Ester Type TPE

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

Material Notes:

Description: TPC-ET, Blow Moldable, Low Modulus, Black ColorApplication: Cable & Wire Jackets, Hose & Tubing, SheetCAS: 37282-12-5 and 1333-86-4Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-KEYFLEX-BT-HB9242D-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 Â°C, Time 86400 sec	0.60 % @Temperature 73.4 Â°F, Time 24.0 hour	ASTM D570
Maximum Moisture Content	0.010	0.010	Injection Molding
	0.010	0.010	Extrusion Molding
Melt Flow	2.0 g/10 min @Load 2.13 kg, Temperature 230 Â°C	2.0 g/10 min @Load 4.70 lb, Temperature 446 Â°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	29.4 MPa @Thickness 2.00 mm	4260 psi @Thickness 0.0787 in	50mm/min; ASTM D638
Elongation at Break	600 % @Thickness 2.00 mm	600 % @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 Â°C	NB @Thickness 0.252 in, Temperature 73.4 Â°F	ASTM D256
	NB @Thickness 6.40 mm, Temperature -40.0 Â°C	NB @Thickness 0.252 in, Temperature -40.0 Â°F	ASTM D256

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

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	220 - 260 Â°C	428 - 500 Â°F	Extrusion Molding
Die Temperature	210 - 250 Â°C	410 - 482 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

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