

## LG Chemical KEYFLEX BT GN7142F Ester Type TPE

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

### Material Notes:

Description: Extrusion Molding, TPC-ET, Halogen Free Flame Retardant, Low Modulus  
Application: Cable & Wire Jackets, Hose & Tubing,  
Sheet  
Information provided by LG Chemical

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LG-Chemical-KEYFLEX-BT-GN7142F-Ester-Type-TPE.php](http://www.lookpolymers.com/polymer_LG-Chemical-KEYFLEX-BT-GN7142F-Ester-Type-TPE.php)

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

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	42	42	ASTM D2240
Tensile Strength at Break	11.8 MPa	1710 psi	50mm/min; ASTM D638
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Elongation at Break	350 %	350 %	50mm/min; ASTM D638
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Izod Impact, Notched	NB	NB	ASTM D256
	@Thickness 6.40 mm, Temperature 23.0 Å°C	@Thickness 0.252 in, Temperature 73.4 Å°F	
Izod Impact, Notched	NB	NB	ASTM D256
	@Thickness 6.40 mm, Temperature -40.0 Å°C	@Thickness 0.252 in, Temperature -40.0 Å°F	

Thermal Properties	Metric	English	Comments
Melting Point	190 Å°C	374 Å°F	Peak

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

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	190 - 210 Â°C	374 - 410 Â°F	Injection Molding
Middle Barrel Temperature	200 - 220 Â°C	392 - 428 Â°F	Injection Molding
Front Barrel Temperature	210 - 230 Â°C	410 - 446 Â°F	Injection Molding
Nozzle Temperature	210 - 230 Â°C	410 - 446 Â°F	Injection Molding
Zone 1	190 - 210 Â°C	374 - 410 Â°F	Extrusion Molding
Zone 2	200 - 220 Â°C	392 - 428 Â°F	Extrusion Molding
Zone 3	205 - 225 Â°C	401 - 437 Â°F	Extrusion Molding
Zone 4	210 - 230 Â°C	410 - 446 Â°F	Extrusion Molding
Adapter Temperature	210 - 230 Â°C	410 - 446 Â°F	Extrusion Molding
Die Temperature	200 - 240 Â°C	392 - 464 Â°F	Extrusion Molding
Melt Temperature	190 - 230 Â°C	374 - 446 Â°F	Injection Molding
	190 - 230 Â°C	374 - 446 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

## Contact Songhan Plastic Technology Co.,Ltd.

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