

## LG Chemical KEYFLEX BT 3140D Ester Type TPE

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

### Material Notes:

Description: Injection Molding, TPC-ET, Specialty, Low Melting Temperature, Low Modulus Application: Masterbatch Carrier, Cable

Compound BaseCAS: 37282-12-5 Information provided by LG Chemical

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LG-Chemical-KEYFLEX-BT-3140D-Ester-Type-TPE.php](http://www.lookpolymers.com/polymer_LG-Chemical-KEYFLEX-BT-3140D-Ester-Type-TPE.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	ASTM D792
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	8.0 g/10 min	8.0 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 A	90	90	ASTM D2240
Hardness, Shore D	36	36	ASTM D2240
Tensile Strength at Break	29.1 MPa	4220 psi	50mm/min; ASTM D638
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Elongation at Break	700 %	700 %	50mm/min; ASTM D638
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Flexural Modulus	0.0539 GPa	7.82 ksi	15mm/min; ASTM D790
	@Thickness 6.40 mm	@Thickness 0.252 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	
	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
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Melting Point Thermal Properties	150 Â°C Metric	302 Â°F English	Peak Comments
Boiling Point	140 - 230 Â°C	284 - 446 Â°F	
Flash Point	300 - 340 Â°C	572 - 644 Â°F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+14 ohm-cm	>= 1.00e+14 ohm-cm	ASTM D257
Dielectric Strength	26.0 kV/mm @Thickness 1.00 mm	660 kV/in @Thickness 0.0394 in	ASTM D149
Comparative Tracking Index	600 V	600 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	160 - 180 Â°C	320 - 356 Â°F	Injection Molding
Middle Barrel Temperature	170 - 190 Â°C	338 - 374 Â°F	Injection Molding
Front Barrel Temperature	180 - 200 Â°C	356 - 392 Â°F	Injection Molding
Nozzle Temperature	180 - 200 Â°C	356 - 392 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	150 - 200 Â°C	302 - 392 Â°F	Injection Molding
	150 - 200 Â°C	302 - 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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