

## LG Chemical KEYFLEX BT 1030D Ester Type TPE

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

### Material Notes:

Description: Injection Molding, TPC-ET, General Purpose, Low Modulus  
 Application: Automotive Interior, Soft Touch Grips  
 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-1030D-Ester-Type-TPE.php](http://www.lookpolymers.com/polymer_LG-Chemical-KEYFLEX-BT-1030D-Ester-Type-TPE.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	ASTM D792
Water Absorption	0.80 % @Temperature 23.0 Å°C, Time 86400 sec	0.80 % @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
Linear Mold Shrinkage, Flow	0.0040 - 0.0080 cm/cm @Thickness 3.20 mm	0.0040 - 0.0080 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	25 g/10 min @Load 2.16 kg, Temperature 230 Å°C	25 g/10 min @Load 4.76 lb, Temperature 446 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	ASTM D2240
Hardness, Shore D	28	28	ASTM D2240
Tensile Strength at Break	21.6 MPa @Thickness 2.00 mm	3130 psi @Thickness 0.0787 in	50mm/min; ASTM D638
Elongation at Break	850 % @Thickness 2.00 mm	850 % @Thickness 0.0787 in	50mm/min; ASTM D638
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 Å°C	@Thickness 0.252 in, English Temperature -40.0 Å°F	ASTM D256 Comments
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Thermal Properties	Metric	English	Comments
Melting Point	165 Å°C	329 Å°F	Peak
Boiling Point	140 - 230 Å°C	284 - 446 Å°F	
Flash Point	300 - 340 Å°C	572 - 644 Å°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	175 - 195 Å°C	347 - 383 Å°F	Injection Molding
Middle Barrel Temperature	185 - 205 Å°C	365 - 401 Å°F	Injection Molding
Front Barrel Temperature	195 - 215 Å°C	383 - 419 Å°F	Injection Molding
Nozzle Temperature	195 - 215 Å°C	383 - 419 Å°F	Injection Molding
Zone 1	165 - 185 Å°C	329 - 365 Å°F	Extrusion Molding
Zone 2	175 - 195 Å°C	347 - 383 Å°F	Extrusion Molding
Zone 3	185 - 205 Å°C	365 - 401 Å°F	Extrusion Molding
Zone 4	185 - 205 Å°C	365 - 401 Å°F	Extrusion Molding
Adapter Temperature	185 - 205 Å°C	365 - 401 Å°F	Extrusion Molding
Die Temperature	175 - 215 Å°C	347 - 419 Å°F	Extrusion Molding
Melt Temperature	170 - 210 Å°C	338 - 410 Å°F	Injection Molding
	170 - 210 Å°C	338 - 410 Å°F	Extrusion Molding
Mold Temperature	10.0 - 35.0 Å°C	50.0 - 95.0 Å°F	Injection Molding
Drying Temperature	80.0 - 90.0 Å°C	176 - 194 Å°F	Injection Molding
	80.0 - 90.0 Å°C	176 - 194 Å°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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