

## LG Chemical KEYFLEX BT HB9255D Ester Type TPE

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

### Material Notes:

Description: TPC-ET, Blow Moldable, Medium Modulus, Black Color  
Application: Air duct, Hose & Tubing  
CAS: 37282-12-5, 24968-12-5 and 1333-86-4  
Information provided by LG Chemical

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LG-Chemical-KEYFLEX-BT-HB9255D-Ester-Type-TPE.php](http://www.lookpolymers.com/polymer_LG-Chemical-KEYFLEX-BT-HB9255D-Ester-Type-TPE.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	ASTM D792
Water Absorption	0.60 % @Temperature 23.0 Å°C, Time 86400 sec	0.60 % @Temperature 73.4 Å°F, Time 24.0 hour	ASTM D570
Maximum Moisture Content	0.010	0.010	Injection Molding
	0.010	0.010	Extrusion Molding
Melt Flow	3.0 g/10 min @Load 5.00 kg, Temperature 230 Å°C	3.0 g/10 min @Load 11.0 lb, Temperature 446 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	47	47	ASTM D2240
Tensile Strength at Break	39.2 MPa @Thickness 2.00 mm	5690 psi @Thickness 0.0787 in	50mm/min; ASTM D638
Elongation at Break	500 % @Thickness 2.00 mm	500 % @Thickness 0.0787 in	50mm/min; ASTM D638
Flexural Modulus	0.196 GPa @Thickness 6.40 mm	28.4 ksi @Thickness 0.252 in	15mm/min; ASTM D790
Izod Impact, Notched	1.47 J/cm @Thickness 6.40 mm, Temperature -40.0 Å°C	2.76 ft-lb/in @Thickness 0.252 in, Temperature -40.0 Å°F	ASTM D256
	NB @Thickness 6.40 mm, Temperature 23.0 Å°C	NB @Thickness 0.252 in, Temperature 73.4 Å°F	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	220 Â°C	428 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	220 - 240 Â°C	428 - 464 Â°F	Injection Molding
Middle Barrel Temperature	230 - 250 Â°C	446 - 482 Â°F	Injection Molding
Front Barrel Temperature	235 - 255 Â°C	455 - 491 Â°F	Injection Molding
Nozzle Temperature	235 - 255 Â°C	455 - 491 Â°F	Injection Molding
Zone 1	220 - 240 Â°C	428 - 464 Â°F	Extrusion Molding
Zone 2	220 - 240 Â°C	428 - 464 Â°F	Extrusion Molding
Zone 3	230 - 250 Â°C	446 - 482 Â°F	Extrusion Molding
Zone 4	230 - 250 Â°C	446 - 482 Â°F	Extrusion Molding
Adapter Temperature	230 - 250 Â°C	446 - 482 Â°F	Extrusion Molding
Die Temperature	220 - 260 Â°C	428 - 500 Â°F	Extrusion Molding
Melt Temperature	220 - 250 Â°C	428 - 482 Â°F	Injection Molding
	220 - 250 Â°C	428 - 482 Â°F	Extrusion Molding
Mold Temperature	30.0 - 60.0 Â°C	86.0 - 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

## Contact Songhan Plastic Technology Co.,Ltd.

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