

LG Chemical KEYFLEX BT 5035D Ester Type TPE

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

Material Notes:

Description: Injection Molding, TPC-ET, Specialty, Low Modulus, Black Color
Application: Automotive Body Plug, Fastener
CAS: 37282-12-5 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-5035D-Ester-Type-TPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 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
Linear Mold Shrinkage, Flow	0.010 - 0.014 cm/cm @Thickness 3.20 mm	0.010 - 0.014 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	30 g/10 min @Load 2.16 kg, Temperature 230 Â°C	30 g/10 min @Load 4.76 lb, Temperature 446 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	88	88	ASTM D2240
Hardness, Shore D	35	35	ASTM D2240
Tensile Strength at Break	24.5 MPa @Thickness 2.00 mm	3550 psi @Thickness 0.0787 in	50mm/min; ASTM D638
Elongation at Break	700 % @Thickness 2.00 mm	700 % @Thickness 0.0787 in	50mm/min; ASTM D638
Flexural Modulus	0.0490 GPa @Thickness 6.40 mm	7.11 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	NB	ASTM D256

Mechanical Properties	Metric @Thickness 6.40 mm, Temperature -40.0 Å°C	English @Thickness 0.252 in, Temperature -40.0 Å°F	Comments
Thermal Properties			
Melting Point	200 Å°C	392 Å°F	Peak
Electrical Properties			
Comparative Tracking Index	600 V	600 V	Solution A; IEC 60112
Processing Properties			
Rear Barrel Temperature	200 - 220 Å°C	392 - 428 Å°F	Injection Molding
Middle Barrel Temperature	205 - 225 Å°C	401 - 437 Å°F	Injection Molding
Front Barrel Temperature	210 - 230 Å°C	410 - 446 Å°F	Injection Molding
Nozzle Temperature	210 - 230 Å°C	410 - 446 Å°F	Injection Molding
Melt Temperature	200 - 230 Å°C	392 - 446 Å°F	Injection 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
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	Injection Molding

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China