

LG Chemical KEYFLEX BT S5035 Ester Type TPE

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

Material Notes:

Description: Injection Molding, TPC-ET, Airbag Cover Deployment, Medium Modulus, Black Color
Application: Airbag Cover (DAB, PAB, KAB, SAB)
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-S5035-Ester-Type-TPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Water Absorption	0.60 %	0.60 %	ASTM D570
	@Temperature 23.0 °C, Time 86400 sec	@Temperature 73.4 °F, Time 24.0 hour	
Maximum Moisture Content	0.010	0.010	Injection Molding
	0.010	0.010	Extrusion Molding
Linear Mold Shrinkage, Flow	0.015 - 0.017 cm/cm	0.015 - 0.017 in/in	ASTM D955
	@Thickness 3.50 mm	@Thickness 0.138 in	
Melt Flow	15 g/10 min	15 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 230 °C	@Load 11.0 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	52	52	ASTM D2240
Tensile Strength at Break	32.4 MPa	4700 psi	50mm/min; ASTM D638
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Elongation at Break	550 %	550 %	50mm/min; ASTM D638
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Flexural Modulus	0.343 GPa	49.8 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 °C	@Thickness 0.252 in, Temperature 73.4 °F	
	NB	NB	ASTM D256
	@Thickness 6.40 mm,	@Thickness 0.252 in,	

Mechanical Properties	Temperature -40.0 °C Metric	Temperature -40.0 °F English	Comments
Tear Strength	142 kN/m	812 pli	50mm/min, @ Break; ASTM D624

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	Peak
Deflection Temperature at 0.46 MPa (66 psi)	60.0 °C @Thickness 6.40 mm	140 °F @Thickness 0.252 in	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	220 - 240 °C	428 - 464 °F	Injection Molding
Middle Barrel Temperature	230 - 250 °C	446 - 482 °F	Injection Molding
Front Barrel Temperature	230 - 250 °C	446 - 482 °F	Injection Molding
Nozzle Temperature	230 - 250 °C	446 - 482 °F	Injection Molding
Zone 1	220 - 230 °C	428 - 446 °F	Extrusion Molding
Zone 2	225 - 235 °C	437 - 455 °F	Extrusion Molding
Zone 3	225 - 235 °C	437 - 455 °F	Extrusion Molding
Zone 4	230 - 240 °C	446 - 464 °F	Extrusion Molding
Adapter Temperature	230 - 240 °C	446 - 464 °F	Extrusion Molding
Die Temperature	220 - 250 °C	428 - 482 °F	Extrusion Molding
Melt Temperature	220 - 250 °C	428 - 482 °F	Injection Molding
	220 - 250 °C	428 - 482 °F	Extrusion Molding
Mold Temperature	40.0 - 60.0 °C	104 - 140 °F	Injection Molding
Drying Temperature	80.0 - 90.0 °C	176 - 194 °F	Injection Molding
	80.0 - 90.0 °C	176 - 194 °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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