

LG Chemical KEYFLEX BT 3038D Ester Type TPE

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

Material Notes:

Description: Injection Molding, TPC-ET, Functional, Fast Molding, Low ModulusApplication: Automotive Interior, Soft Touch GripsCAS: 37282-12-5Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-KEYFLEX-BT-3038D-Ester-Type-TPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 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	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	80	80	ASTM D2240
Hardness, Shore D	35	35	ASTM D2240
Tensile Strength at Break	22.6 MPa @Thickness 2.00 mm	3280 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
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 @Thickness 6.40 mm, Temperature -40.0 Â°C	NB @Thickness 0.252 in, Temperature -40.0 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	190 Â°C	374 Â°F	Peak
Boiling Point	140 - 230 Â°C	284 - 446 Â°F	

Thermal Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
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Comparative Tracking Index	600 V	600 V	Solution A; IEC 60112
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Processing Properties	Metric	English	Comments
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Rear Barrel Temperature	205 - 235 Â°C	401 - 455 Â°F	Injection Molding
Middle Barrel Temperature	205 - 225 Â°C	401 - 437 Â°F	Injection Molding
Front Barrel Temperature	215 - 235 Â°C	419 - 455 Â°F	Injection Molding
Nozzle Temperature	220 - 240 Â°C	428 - 464 Â°F	Injection Molding
Zone 1	205 - 220 Â°C	401 - 428 Â°F	Extrusion Molding
Zone 2	210 - 230 Â°C	410 - 446 Â°F	Extrusion Molding
Zone 3	215 - 235 Â°C	419 - 455 Â°F	Extrusion Molding
Zone 4	215 - 235 Â°C	419 - 455 Â°F	Extrusion Molding
Adapter Temperature	215 - 235 Â°C	419 - 455 Â°F	Extrusion Molding
Die Temperature	205 - 245 Â°C	401 - 473 Â°F	Extrusion Molding
Melt Temperature	205 - 235 Â°C	401 - 455 Â°F	Injection Molding
	205 - 235 Â°C	401 - 455 Â°F	Extrusion Molding
Mold Temperature	20.0 - 40.0 Â°C	68.0 - 104 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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