

LG Chemical KEYFLEX BT 3028D Ester Type TPE

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

Material Notes:

Description: Injection Molding, TPC-ET, Functional, Fast Molding, 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-3028D-Ester-Type-TPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 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	50 g/10 min	50 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 230 Â°C	@Load 4.76 lb, Temperature 446 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	ASTM D2240
Hardness, Shore D	28	28	ASTM D2240
Tensile Strength at Break	14.7 MPa	2130 psi	50mm/min; ASTM D638
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Elongation at Break	750 %	750 %	50mm/min; ASTM D638
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Izod Impact, Notched	NB	NB	ASTM D256
	@Thickness 6.40 mm, Temperature 23.0 Â°C	@Thickness 0.252 in, Temperature 73.4 Â°F	
	NB	NB	ASTM D256
	@Thickness 6.40 mm, Temperature -40.0 Â°C	@Thickness 0.252 in, Temperature -40.0 Â°F	

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	190 - 210 Â°C	374 - 410 Â°F	Injection Molding
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Middle Barrel Temperature	200 - 220 Â°C	392 - 428 Â°F	Injection Molding
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Front Barrel Temperature	200 - 220 Â°C	392 - 428 Â°F	Injection Molding
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Nozzle Temperature	200 - 220 Â°C	392 - 428 Â°F	Injection Molding
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Zone 1	190 - 220 Â°C	374 - 428 Â°F	Extrusion Molding
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Zone 2	200 - 220 Â°C	392 - 428 Â°F	Extrusion Molding
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Zone 3	200 - 220 Â°C	392 - 428 Â°F	Extrusion Molding
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Zone 4	200 - 220 Â°C	392 - 428 Â°F	Extrusion Molding
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Adapter Temperature	200 - 220 Â°C	392 - 428 Â°F	Extrusion Molding
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Die Temperature	190 - 220 Â°C	374 - 428 Â°F	Extrusion Molding
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Melt Temperature	190 - 220 Â°C	374 - 428 Â°F	Injection Molding
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	190 - 220 Â°C	374 - 428 Â°F	Extrusion Molding
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Mold Temperature	20.0 - 40.0 Â°C	68.0 - 104 Â°F	Injection Molding
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Drying Temperature	80.0 - 90.0 Â°C	176 - 194 Â°F	Injection Molding
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	80.0 - 90.0 Â°C	176 - 194 Â°F	Extrusion Molding
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Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	Injection Molding
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	3.00 - 4.00 hour	3.00 - 4.00 hour	Extrusion Molding
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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