

Keyflex® BT 1055D

Thermoplastic Copolyester Elastomer

LG Chem Ltd.

Message:

Description

General Purpose, Medium Modulus

Applications

Injection Parts for Automotives, Leisure & Sports, etc.

General Information			
UL YellowCard	E67171-248689		
Features	General Purpose		
	Medium Rigidity		
Uses	Automotive Applications		
	Sporting Goods		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	25	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	1.1 to 1.5	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.60	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	55		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield, 2.00 mm	13.7	MPa	
Break, 2.00 mm	44.1	MPa	
Tensile Elongation ² (Break, 2.00 mm)	800	%	ASTM D638
Flexural Modulus ³ (6.40 mm)	196	MPa	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁴	147	kN/m	ASTM D624
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C, 6.40 mm	150	J/m	
23°C, 6.40 mm	No Break		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, 6.40 mm)	90.0	°C	ASTM D648
Peak Melting Temperature	205	°C	ASTM D3418

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+15	ohms·cm	ASTM D257
Dielectric Strength (1.00 mm)	26	kV/mm	ASTM D149
Comparative Tracking Index (CTI) ⁵	600	V	UL 746
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	HB		
3.00 mm	HB		
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	3.0 to 4.0	hr	
Suggested Max Moisture	0.010	%	
Rear Temperature	200 to 220	°C	
Middle Temperature	210 to 230	°C	
Front Temperature	220 to 240	°C	
Nozzle Temperature	220 to 240	°C	
Processing (Melt) Temp	200 to 240	°C	
Mold Temperature	20.0 to 40.0	°C	
Extrusion	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	3.0 to 4.0	hr	
Suggested Max Moisture	0.010	%	
Cylinder Zone 1 Temp.	200 to 220	°C	
Cylinder Zone 2 Temp.	210 to 230	°C	
Cylinder Zone 3 Temp.	210 to 230	°C	
Cylinder Zone 4 Temp.	210 to 230	°C	
Adapter Temperature	210 to 230	°C	
Melt Temperature	200 to 240	°C	
Die Temperature	200 to 220	°C	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	15 mm/min		
4.	50 mm/min		
5.	Solution A		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

