Keyflex® BT 1155D

Thermoplastic Copolyester Elastomer

LG Chem Ltd.

Message:

Description
General Purpose, Medium Modulus
Application
Cable & Wire Jackets, Hose & Tubing

General Information	
Features	General Purpose
Uses	Cable Jacketing Hose Tubing Wire & Cable Applications
Processing Method	Extrusion Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	14	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm, Injection Molded)	1.0 to 1.4	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.60	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D, 23°C, Injection Molded)	52		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1]			ASTM D638
Yield, 23°C, 2.00 mm, Injection Molded	13.2	MPa	
Break, 23°C, 2.00 mm, Injection Molded	34.3	MPa	
Tensile Elongation [2] (Break, 23°C, 2.00 mm, Injection Molded)	850	%	ASTM D638
Flexural Modulus [3] (23°C, 6.40 mm, Injection Molded)	167	MPa	ASTM D790
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tear Strength [4] (23°C)	147	kN/m	ASTM D624
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
-40°C, 6.40 mm, Injection Molded	250	J/m	
23°C, 6.40 mm, Injection Molded	No Break		

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, 6.40 mm, Injection Molded)	85.0	°C	ASTM D648
Peak Melting Temperature	200	°C	ASTM D3418
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity (23°C)	> 1.0E+13	ohms·cm	ASTM D257
Dielectric Strength (23°C, 1.00 mm)	26	kV/mm	ASTM D149
Comparative Tracking Index (Solution A)	600	V	IEC 60112
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.	215 to 235	°C	
Cylinder Zone 4 Temp.	220 to 240	°C	
Adapter Temperature	220 to 240	°C	
Melt Temperature	200 to 240	°C	
Die Temperature	210 to 250	°C	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	15 mm/min		
4.	50 mm/min		

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