

Keyflex® BT 1182D

Thermoplastic Copolyester Elastomer

LG Chem Ltd.

Message:

Description

General Purpose, High Modulus

Application

Cable & Wire Jackets, Hose & Tubing

General Information			
Features	General		
Uses	Cable sheath		
	Wire and cable applications		
	Pipe		
	Pipe fittings		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.28	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (240°C/2.16 kg)	16	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm, Injection Molded)	0.014 - 0.018	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 23°C, Injection Molded)	74		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield, 23°C, 2.00mm, injection molding	34.3	MPa	ASTM D638
Fracture, 23°C, 2.00mm, injection molding	49.0	MPa	ASTM D638
Tensile Elongation ² (Break, 23°C, 2.00 mm, Injection Molded)	350	%	ASTM D638
Flexural Modulus ³ (23°C, 6.40 mm, Injection Molded)	1080	MPa	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tear Strength (23°C)	167	kN/m	ASTM D624
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C, 6.40mm, injection molding	29	J/m	ASTM D256

23°C, 6.40mm, injection molding	39	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	145	°C	ASTM D648
Peak Melting Temperature	220	°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	90 - 100	°C	
Drying Time	3.0 - 4.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	220 - 240	°C	
Middle Temperature	230 - 250	°C	
Front Temperature	235 - 255	°C	
Nozzle Temperature	235 - 255	°C	
Processing (Melt) Temp	220 - 240	°C	
Mold Temperature	40 - 60	°C	
Extrusion	Nominal Value	Unit	
Drying Temperature	90 - 100	°C	
Drying Time	3.0 - 4.0	hr	
Suggested Max Moisture	0.10	%	
Cylinder Zone 1 Temp.	220 - 240	°C	
Cylinder Zone 2 Temp.	225 - 245	°C	
Cylinder Zone 3 Temp.	230 - 250	°C	
Cylinder Zone 4 Temp.	235 - 245	°C	
Adapter Temperature	235 - 245	°C	
Melt Temperature	220 - 240	°C	
Die Temperature	220 - 260	°C	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	15 mm/min		

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