

Keyflex® BT GN 7142F

Thermoplastic Copolyester Elastomer

LG Chem Ltd.

Message:

Description

Halogen Free Flame Retardant, Low Modulus

Application

Cable & Wire Jackets, Hose & Tubing

General Information			
Features	Halogen-free		
	Flame retardancy		
Uses	Cable sheath		
	Wire and cable applications		
	Wire sheath		
	Pipe		
	Pipe fittings		
Processing Method	Extrusion		
	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)	12	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 23°C, Injection Molded)	37		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break, 23°C, 2.00 mm, Injection Molded)	7.85	MPa	ASTM D638
Tensile Elongation ² (Break, 23°C, 2.00 mm, Injection Molded)	700	%	ASTM D638
Flexural Modulus ³ (23°C, 6.40 mm, Injection Molded)	88.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C, 6.40mm, injection molding	No Break		ASTM D256
23°C, 6.40mm, injection molding	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	190	°C	ASTM D3418
Electrical	Nominal Value	Unit	Test Method

Dielectric Strength (23°C, 1.00 mm)	24	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.6 mm	V-0		UL 94
3.2 mm	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80 - 90	°C	
Drying Time	3.0 - 4.0	hr	
Suggested Max Moisture	< 0.010	%	
Rear Temperature	190 - 210	°C	
Middle Temperature	200 - 220	°C	
Front Temperature	210 - 230	°C	
Nozzle Temperature	210 - 230	°C	
Processing (Melt) Temp	190 - 230	°C	
Mold Temperature	20 - 40	°C	
Extrusion	Nominal Value	Unit	
Drying Temperature	80 - 90	°C	
Drying Time	3.0 - 4.0	hr	
Suggested Max Moisture	0.10	%	
Cylinder Zone 1 Temp.	190 - 210	°C	
Cylinder Zone 2 Temp.	200 - 220	°C	
Cylinder Zone 3 Temp.	200 - 220	°C	
Cylinder Zone 4 Temp.	200 - 220	°C	
Adapter Temperature	200 - 220	°C	
Melt Temperature	190 - 230	°C	
Die Temperature	190 - 210	°C	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	15 mm/min		

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