

Keyflex® BT HB9242D

Thermoplastic Copolyester Elastomer

LG Chem Ltd.

Message:

Description

Low Modulus, Black Color

Application

CVJ Boot, Bellows

General Information			
Features	Alkali Resistant		
Uses	Automotive Applications		
Appearance	Black		
Processing Method	Extrusion		
	Injection Molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Water Absorption (23°C, 24 hr)	0.60	%	ASTM D570

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 23°C, Injection Molded	92		
Shore D, 23°C, Injection Molded	37		

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break, 23°C, 2.00 mm, Injection Molded)	34.3	MPa	ASTM D638
Tensile Elongation ² (Break, 23°C, 2.00 mm, Injection Molded)	1000	%	ASTM D638
Flexural Modulus ³ (23°C, 6.40 mm, Injection Molded)	78.5	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C, 6.40 mm, Injection Molded	No Break		
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)	70.0	°C	ASTM D648
Peak Melting Temperature	198	°C	ASTM D3418

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.	210 to 230	°C
Cylinder Zone 2 Temp.	220 to 240	°C
Cylinder Zone 3 Temp.	220 to 240	°C
Cylinder Zone 4 Temp.	220 to 240	°C
Adapter Temperature	220 to 240	°C
Melt Temperature	200 to 250	°C
Die Temperature	210 to 230	°C

NOTE

- | | |
|----|-----------|
| 1. | 50 mm/min |
| 2. | 50 mm/min |
| 3. | 15 mm/min |

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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

