

Keyflex® BT S5035

Thermoplastic Copolyester Elastomer

LG Chem Ltd.

Message:

Description
Medium Modulus, Black Color
Application
Airbag Cover (DAB, PAB, KAB, SAB)

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

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	15	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm, Injection Molded)	1.5 to 1.7	%	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 (Break, 23°C, 2.00 mm, Injection Molded)	32.4	MPa	ASTM D638
Tensile Elongation ² (Break, 23°C, 2.00 mm, Injection Molded)	550	%	ASTM D638
Flexural Modulus ³ (23°C, 6.40 mm, Injection Molded)	294	MPa	ASTM D790
Flexural Strength ⁴ (6.40 mm)	12.7	MPa	ASTM D790

Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁵ (23°C)	145	kN/m	ASTM D624

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)	60.0	°C	ASTM D648
Peak Melting Temperature	220	°C	ASTM D3418

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	220 to 240	°C
Middle Temperature	225 to 245	°C
Front Temperature	230 to 250	°C
Nozzle Temperature	230 to 250	°C
Processing (Melt) Temp	220 to 250	°C
Mold Temperature	40.0 to 60.0	°C

NOTE

- | | |
|----|-----------|
| 1. | 50 mm/min |
| 2. | 50 mm/min |
| 3. | 15 mm/min |
| 4. | 15 mm/min |
| 5. | 50 mm/min |

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

