

# Keyflex® BT 7038D

Thermoplastic Copolyester Elastomer

LG Chem Ltd.

Message:

Applications:  
Injection Parts for Automotive  
Description:  
Functional, Fast Molding, Low Modulus

General Information			
Features	Fast Molding Cycle		
Uses	Automotive Applications		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	30	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A	80		
Shore D	36		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Break, 2.00 mm)	21.6	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break, 2.00 mm)	700	%	ASTM D638
Flexural Modulus <sup>3</sup> (6.40 mm)	63.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact			ASTM D256
-40°C, 163 mm	No Break		
23°C, 163 mm	No Break		
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	205	°C	ASTM D3418
Electrical	Nominal Value	Unit	Test Method
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	
Rear Temperature	205 to 225	°C	
Middle Temperature	215 to 235	°C	
Front Temperature	220 to 240	°C	
Nozzle Temperature	220 to 240	°C	
Processing (Melt) Temp	205 to 235	°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
Cylinder Zone 1 Temp.	205 to 225	°C
Cylinder Zone 2 Temp.	210 to 235	°C
Cylinder Zone 3 Temp.	215 to 235	°C
Cylinder Zone 4 Temp.	215 to 235	°C
Adapter Temperature	215 to 235	°C
Melt Temperature	205 to 235	°C
Die Temperature	205 to 245	°C

#### NOTE

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

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