

Ultradur® B 4040 G11 HMG BK15029

Polybutylene Terephthalate

BASF Corporation

Message:

Ultradur B 4040 G11 HMG BK15029 is a polybutylene terephthalate alloy reinforced with 55% glass fiber. In addition to high stiffness it offers exceptional dimensional stability.

Applications

Typical applications include automotive exterior components such as mirror brackets and wiper arms.

General Information			
Filler / Reinforcement	Glass Fiber,55% Filler by Weight		
Features	Good Dimensional Stability		
	High Stiffness		
Uses	Automotive Exterior Parts		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.81	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.90	%	
Flow	0.50	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	21000	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	163	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	1.3	%	ISO 527-2
Flexural Modulus (23°C)	19200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	47	kJ/m ²	ISO 179
Notched Izod Impact Strength			ISO 180
-40°C	11	kJ/m ²	
23°C	10	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	219	°C	ISO 75-2/B
1.8 MPa, Unannealed	207	°C	ISO 75-2/A
Melting Temperature (DSC)	223	°C	ISO 3146
Injection	Nominal Value	Unit	

Drying Temperature	100 to 120	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.040	%
Processing (Melt) Temp	250 to 270	°C
Mold Temperature	60.0 to 100	°C
Injection Pressure	3.50 to 12.5	MPa
Injection Rate	Fast	
Back Pressure	< 1.00	MPa

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