

Ultradur® B 4040 G6 HR BK15029

Polybutylene Terephthalate + PET

BASF Corporation

Message:

Ultradur B4040 G6 HR BK15029 is a hydrolysis resistant, 30% glass reinforced PBT/PET blend, exhibiting good mechanical properties and melt flow properties.

Applications

Ultradur B4040 G6 HR BK15029 is developed for solar and E/E applications.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	Good liquidity		
	Hydrolysis resistance		
Uses	Electrical/Electronic Applications		
	Solar panel		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS compliance		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.55	g/cm ³	ISO 1183
Viscosity Number (Reduced Viscosity)	97.0	ml/g	ISO 1628
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	8900	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	127	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.7	%	ISO 527-2
Flexural Modulus (23°C)	9050	MPa	ISO 178
Flexural Stress (23°C)	220	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	7.7	kJ/m ²	ISO 179
23°C	8.7	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	58	kJ/m ²	ISO 179
Notched Izod Impact			ISO 180
-40°C	7.1	kJ/m ²	ISO 180
23°C	8.2	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	200	°C	ISO 75-2/A
Melting Temperature (DSC)	223	°C	ISO 3146
Injection	Nominal Value	Unit	
Drying Temperature	100 - 120	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Processing (Melt) Temp	250 - 275	°C	
Mold Temperature	40 - 70	°C	
Injection Pressure	3.50 - 12.5	MPa	
Injection Rate	Fast		
Back Pressure	< 1.00	MPa	

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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

