

Ultradur® B 4040 G4

Polybutylene Terephthalate + PET

BASF Corporation

Product Description				
Injection molding grade with 20 % glass fibers for technical parts with excellent surface finish (eg oven- and car-door handles). Formerly called Ultrablend S KR 4040 G4.				
General				
Material Status	• Commercial: Active			
Availability	• Europe			
Filler / Reinforcement	• Glass Fiber Reinforcement, 20% Filler by Weight			
Features	• Good Surface Finish			
Uses	• Automotive Applications	• Handles		
RoHS Compliance	• RoHS Compliant			
Appearance	• Black	• Colors Available		
Forms	• Pellets			
Processing Method	• Extrusion	• Injection Molding		
Multi-Point Data	• Isothermal Stress vs. Strain (ISO 11403-1)	• Secant Modulus vs. Strain (ISO 11403-1)	• Shear Modulus vs. Temperature (ISO 11403-2)	
Resin ID (ISO 1043)	• PBT-PET			
Physical		Nominal Value	Unit	Test Method
Density		1.47	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/2.16 kg)		22.0	cm ³ /10min	ISO 1133
Molding Shrinkage				ISO 294-4
Across Flow: 3.00 mm		1.1	%	
Flow: 3.00 mm		0.21	%	
Water Absorption				ISO 62
Saturation, 23°C		0.40	%	
Equilibrium, 23°C, 50% RH		0.20	%	
Mechanical		Nominal Value	Unit	Test Method
Tensile Modulus (23°C)		7500	MPa	ISO 527-2
Tensile Stress (Break, 23°C)		120	MPa	ISO 527-2
Tensile Strain (Break, 23°C)		2.5	%	ISO 527-2
Impact		Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)		6.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)		40	kJ/m ²	ISO 179/1eU
Hardness		Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)		190	MPa	ISO 2039-1
Thermal		Nominal Value	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed		215	°C	ISO 75-2/B
1.8 MPa, Unannealed		180	°C	ISO 75-2/A
Melting Temperature (DSC)		235	°C	ISO 3146
Electrical		Nominal Value	Unit	Test Method
Volume Resistivity		7.0E+15	ohm·cm	IEC 60093
Relative Permittivity				IEC 60250
23°C, 100 Hz		3.70		
23°C, 1 MHz		3.50		
Dissipation Factor				IEC 60250
23°C, 100 Hz		0.0014		
23°C, 1 MHz		0.018		
Comparative Tracking Index (Solution A)		300	V	IEC 60112

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 www.kedisujiao.com

备注：以上原料物性数据由厂家发布,我公司仅提供参考！数据如有变动，请联系原料生产厂家获知。我公司不承担任何法律责任！

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Thursday, December 10, 2009

Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL			UL 94
0.800 mm		HB	
1.60 mm		HB	

Additional Information

The value listed as Melting Temperature (DSC), ISO 3146, was tested in accordance with ISO 3146.
Maximum Service Temperature (Short Cycle Operation): 210°C
Moulding Compound ISO 7792-PBT-PET, MCGHLR, 07-080, GF20
Specific Heat Capacity: 1100 J/(kg K)
Temperature Index at 50% Loss of Tensile Strength after 20000h, IEC 216: 140°C
Temperature Index at 50% Loss of Tensile Strength after 5000h, IEC 216: 140°C
Viscosity Number (solution 0.05 g/ml phenole/1,2 Dichlorbenzol 1:1), ISO 307, 1157, 1628: 105 cm³/g

Injection	Nominal Value	Unit
Processing (Melt) Temp	250 to 275	°C
Mold Temperature	60.0 to 100	°C

Extrusion	Nominal Value	Unit
Melt Temperature	250 to 275	°C

Notes

¹ Typical properties: these are not to be construed as specifications.

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