

Ultradur® S 4090 G6 High Speed

Polybutylene Terephthalate + ASA

BASF Corporation

Product Description
 Low-warpage, easy-flowing injection molding grade with 30 % glass fibres for technical parts, for which dimensional stability is very important (eg, housings, plug-and-socket connectors).

General	
Material Status	• Commercial: Active
Availability	• Europe
Filler / Reinforcement	• Glass Fiber Reinforcement, 30% Filler by Weight
Features	• Good Dimensional Stability • Good Flow • Low Warpage
Uses	• Connectors • Housings
Appearance	• Black • Natural Color
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PBT-ASA

Physical	Nominal Value	Unit	Test Method
Density	1480	kg/m ³	ISO 1183 ²
Apparent Density	0.70 to 0.80	g/cm ³	ISO 60
Melt volume-flow rate (275°C/2.16 kg)	25.0	cm ³ /10min	ISO 1133 ²
Molding Shrinkage			ISO 2577 ²
Flow	0.25	%	
Across Flow	0.84	%	
Water Absorption			ISO 62 ²
Saturation	0.40	%	
Equilibrium	0.20	%	
Viscosity number	100	cm ³ /g	ISO 307, 1157, 1628 ²
Mold Shrinkage			
-- ³	0.17	%	
-- ⁴	0.71	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	9800	MPa	ISO 527-2 ²
Tensile Stress (Break)	120	MPa	ISO 527-2 ²
Tensile Strain (Break)	2.0	%	ISO 527-2 ²

Impact	Nominal Value	Unit	Test Method
Charpy notched impact strength (23°C)	7.40	kJ/m ²	ISO 179/1eA ²
Charpy impact strength (23°C)	50.0	kJ/m ²	ISO 179/1eU ²

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2 ²
0.45 MPa	215	°C	
1.8 MPa	190	°C	
Melting Temperature ⁵	223	°C	ISO 11357-3 ²

Electrical	Nominal Value	Unit	Test Method
Volume resistivity	3.0E+13	ohm·m	IEC 60093 ²
Relative Permittivity			IEC 60250 ²
100 Hz	3.80		
1 MHz	3.70		
Dissipation Factor			IEC 60250 ²
100 Hz	0.0030		
1 MHz	0.018		
Comparative Tracking Index (Solution A)	500	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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Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL (1.60 mm)		HB	UL 94
Additional Information	Nominal Value	Unit	Test Method
ISO Type	Moulding Compound ISO 7792-PBT-ASA, MGHLNR, 11-100, GF30		ISO 7792
Polymer Abbreviation	(PBT+ASA)-GF30		
Injection	Nominal Value	Unit	
Suggested Max Moisture	0.040	%	
Processing (Melt) Temp	250 to 275	°C	
Mold Temperature	60.0 to 100	°C	
Extrusion	Nominal Value	Unit	
Suggested Max Moisture	0.040	%	
Melt Temperature	250 to 275	°C	

Notes

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

² Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

³ free, longitudinal, plate with film gate, 150*150*3 mm

⁴ free, transverse, plate with film gate, 150*150*3 mm

⁵ 10 °C/min

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