

# Ultradur® S 4090 G6X 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, reduction of wall thickness (eg, e/e 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	• Warp Resistant	
Uses	• Connectors	• Housings	
Appearance	• Black	• Natural Color	
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PBT-ASA		
Physical	Nominal Value	Unit	Test Method
Apparent Density	0.70 to 0.80	g/cm <sup>3</sup>	ISO 60
Melt volume-flow rate (275°C/2.16 kg)	40.0	cm <sup>3</sup> /10min	ISO 1133 <sup>2</sup>
Molding Shrinkage			ISO 2577 <sup>2</sup>
Flow	0.32	%	
Across Flow	0.97	%	
Water Absorption			ISO 62 <sup>2</sup>
Saturation	0.40	%	
Equilibrium	0.20	%	
Viscosity number	95.0	cm <sup>3</sup> /g	ISO 307, 1157, 1628 <sup>2</sup>
Mold Shrinkage			
-- <sup>3</sup>	0.13	%	
-- <sup>4</sup>	0.89	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	9500	MPa	ISO 527-2 <sup>2</sup>
Tensile Stress (Break)	120	MPa	ISO 527-2 <sup>2</sup>
Tensile Strain (Break)	2.2	%	ISO 527-2 <sup>2</sup>
Impact	Nominal Value	Unit	Test Method
Charpy notched impact strength (23°C)	7.80	kJ/m <sup>2</sup>	ISO 179/1eA <sup>2</sup>
Charpy impact strength (23°C)	50.0	kJ/m <sup>2</sup>	ISO 179/1eU <sup>2</sup>
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2 <sup>2</sup>
0.45 MPa	220	°C	
1.8 MPa	200	°C	
Melting Temperature <sup>5</sup>	223	°C	ISO 11357-3 <sup>2</sup>
Electrical	Nominal Value	Unit	Test Method
Volume resistivity	1.5E+13	ohm·m	IEC 60093 <sup>2</sup>
Relative Permittivity			IEC 60250 <sup>2</sup>
100 Hz	3.90		
1 MHz	3.70		
Dissipation Factor			IEC 60250 <sup>2</sup>
100 Hz	0.0046		
1 MHz	0.020		
Comparative Tracking Index (Solution A)	425	V	IEC 60112
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, MCGHLR, 09-100, GF30		ISO 7792
Polymer Abbreviation	(PBT+ASA)-GF30		

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 [www.kedisujiao.com](http://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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Tuesday, December 15, 2009

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**

<sup>1</sup> Typical properties: these are not to be construed as specifications.

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

<sup>3</sup> free, longitudinal, plate with film gate, 150\*150\*3 mm

<sup>4</sup> free, transverse, plate with film gate, 150\*150\*3 mm

<sup>5</sup> 10 °C/min

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