

Ultradur® S 4090 G6X

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	• Good Flow	• Low Warpage
Uses	• Connectors	• Housings	
RoHS Compliance	• RoHS Compliant		
Appearance	• Black	• Natural Color	
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	
Multi-Point Data	• Shear Modulus vs. Temperature (ISO 11403-2)		
Resin ID (ISO 1043)	• PBT-ASA		
Physical	Nominal Value	Unit	Test Method
Density	1.47	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/2.16 kg)	20.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow: 3.00 mm	0.95	%	
Flow: 3.00 mm	0.16	%	
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)	9800	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	132	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.5	%	ISO 527-2
Flexural Strength (23°C)	190	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	64	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	220	°C	ISO 75-2/B
1.8 MPa, Unannealed	205	°C	ISO 75-2/A
Melting Temperature (DSC)	223	°C	ISO 3146
CLTE - Flow (23 to 80°C)	0.000030	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.5E+15	ohm·cm	IEC 60093
Relative Permittivity			IEC 60250
23°C, 100 Hz	3.90		
23°C, 1 MHz	3.70		
Dissipation Factor			IEC 60250
23°C, 100 Hz	0.0046		
23°C, 1 MHz	0.020		
Comparative Tracking Index (Solution A)	425	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！

Ultradur® S 4090 G6X
Polybutylene Terephthalate + ASA
BASF Corporation

Tuesday, December 15, 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.
Moulding Compound ISO 7792-PBT-ASA, MCGHLR, 07-100, GF30
Specific Heat Capacity: 1150 J/(kg K)
Viscosity Number (solution 0.05 g/ml phenole/1,2 Dichlorbenzol 1:1), ISO 307, 1157, 1628: 104 cm³/g

Injection	Nominal Value	Unit
Processing (Melt) Temp	260 to 280	°C
Mold Temperature	60.0 to 80.0	°C

Extrusion	Nominal Value	Unit
Melt Temperature	260 to 280	°C

Notes

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

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！