

Ultradur® S 4090 G4 High Speed Unc.

Polybutylene Terephthalate + ASA

BASF Corporation

Product Description

Ultradur S 4090 G4 High Speed Unc. is a high flow, fast cycling with low warpage, 20% glass filled injection molding PBT for industrial parts, rigid tough and dimensional stable applications.

Typical applications include windshield wiper arms, printed circuit boards, housing, consoles, contact carriers, covers.

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber Reinforcement, 20% Filler by Weight
Features	• Fast Molding Cycle • Good Toughness • Low Warpage • Good Dimensional Stability • High Flow • Medium Rigidity
Uses	• Automotive Applications • Housings • Protective Coverings • Electrical Housing • Printed Circuit Boards
RoHS Compliance	• RoHS Compliant
Processing Method	• Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1380	kg/m ³	ISO 1183 ²
Melt volume-flow rate (275°C/5.0 kg)	48.0	cm ³ /10min	ISO 1133 ²
Molding Shrinkage			ISO 294-4
Across Flow	0.76	%	
Flow	0.39	%	
Water Absorption			ISO 62 ²
Saturation	0.40	%	
Equilibrium	0.20	%	
Viscosity Number	95.0	cm ³ /g	ISO 1628

Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	7000	MPa	ISO 527-2 ²
Tensile Stress			
Break, -40°C	160	MPa	ISO 527-2
Break, 23°C	98.0	MPa	ISO 527-2
Break, 80°C	68.0	MPa	ISO 527-2
Break, 121°C	42.0	MPa	ISO 527-2
Break	98.0	MPa	ISO 527-2 ²
Tensile Strain (Break)	2.1	%	ISO 527-2 ²

Impact	Nominal Value	Unit	Test Method
Charpy notched impact strength (23°C)	6.20	kJ/m ²	ISO 179/1eA ²

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2 ²
0.45 MPa	205	°C	
1.8 MPa	160	°C	
Melting Temperature (DSC)	223	°C	ISO 3146
CLTE - Flow	0.000040	cm/cm/°C	ISO 11359-2

Electrical	Nominal Value	Unit	Test Method
Surface resistivity	1.0E+14	ohms	IEC 60093 ²
Volume resistivity	> 1.0E+11	ohm·m	IEC 60093 ²
Relative Permittivity			IEC 60250 ²
100 Hz	3.70		
1 MHz	3.60		
Dissipation Factor			IEC 60250 ²
100 Hz	30		
1 MHz	190		
Comparative tracking index	450		IEC 60112 ²

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 www.kedisujiao.com

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Tuesday, December 15, 2009

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.

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