

Ultradur® B 4300 G6 High Speed Unc.

Polybutylene Terephthalate

Product Description

Ultradur B 4300 G6 High Speed Unc. is a high flow, fast cycling with low warpage, 30% glass filled, pigmented black, injection molding PBT for industrial parts, rigid tough and dimensional stable applications.

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber Reinforcement, 30% Filler by Weight
Features	• Fast Molding Cycle • Good Dimensional Stability • Low Warpage
Uses	• Housings • Printed Circuit Boards • Protective Coverings
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1530	kg/m ³	ISO 1183 ²
Melt volume-flow rate (250°C/2.16 kg)	29.0	cm ³ /10min	ISO 1133 ²
Molding Shrinkage			ISO 294-4
Across Flow	0.20	%	
Flow	1.1	%	
Water Absorption			ISO 62 ²
Saturation	0.40	%	
Equilibrium	0.20	%	
Viscosity Number	85.0	cm ³ /g	ISO 1628

Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	9800	MPa	ISO 527-2 ²
Tensile Stress (Break)	145	MPa	ISO 527-2 ²
Tensile Strain (Break)	2.7	%	ISO 527-2 ²
Flexural Strength (23°C)	210	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy notched impact strength (23°C)	10.0	kJ/m ²	ISO 179/1eA ²
Charpy Unnotched Impact Strength (23°C)	60	kJ/m ²	ISO 179

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2 ²
0.45 MPa	220	°C	
1.8 MPa	200	°C	
Melting Temperature (DSC)	223	°C	ISO 3146
CLTE - Flow	0.000025	cm/cm/°C	ISO 11359-2

Electrical	Nominal Value	Unit	Test Method
Surface resistivity	1.0E+13	ohms	IEC 60093 ²
Volume resistivity	> 1.0E+11	ohm·m	IEC 60093 ²
Relative Permittivity			IEC 60250 ²
100 Hz	3.90		
1 MHz	3.70		
Dissipation Factor			IEC 60250 ²
100 Hz	33		
1 MHz	190		
Comparative tracking index	400		IEC 60112 ²

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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