

Ultradur® B 4300 G4 High Speed Unc.

Polybutylene Terephthalate

Product Description

Ultradur B 4300 G4 High Speed Unc. is a high flow, fast cycling with low warpage, 20% 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, 20% Filler by Weight
Features	• Fast Molding Cycle • Good Dimensional Stability • Good Flow • Low Warpage
Uses	• Automotive Applications • Automotive Electronics • Automotive Exterior Parts • Cams • Electrical/Electronic Applications • Housings
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1450	kg/m ³	ISO 1183 ²
Melt volume-flow rate (250°C/2.16 kg)	21.0	cm ³ /10min	ISO 1133 ²
Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	7110	MPa	ISO 527-2 ²
Tensile Stress (Break)	122	MPa	ISO 527-2 ²
Tensile Strain (Break)	3.2	%	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 Unnotched Impact Strength			ISO 179
-30°C	43	kJ/m ²	
23°C	51	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2 ²
0.45 MPa	220	°C	
1.8 MPa	195	°C	
Melting Temperature (DSC)	223	°C	ISO 3146

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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