



Ultradur® B 4300 G6 HR Unc.

BASF Corporation - Polybutylene Terephthalate

Monday, November 4, 2019

General Information

Product Description

Ultradur B 4300 G6 HR Unc. is a hydrolysis resistant, 30% fiberglass reinforced PBT, exhibiting good balance of properties and flow.

Applications

Ultradur B 4300 G6 HR Unc. was developed for automotive connectors designed to meet USCAR Class III requirements.

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• Good Flow • Hydrolysis Resistant
Uses	• Automotive Applications • Connectors
Agency Ratings	• EC 1907/2006 (REACH) • USCAR III
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.52	g/cm ³	ISO 1183
Viscosity Number (Reduced Viscosity)	105.0	ml/g	ISO 1628
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break, 73°F)	18700	psi	ISO 527-2
Tensile Strain (Break, 73°F)	3.7	%	ISO 527-2
Flexural Modulus (73°F)	1.13E+6	psi	ISO 178
Flexural Stress (73°F)	28900	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	6.7	ft-lb/in ²	ISO 179
Charpy Unnotched Impact Strength (73°F)	37	ft-lb/in ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	433	°F	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	525	V	IEC 60112

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	212 to 248	°F
Drying Time	4.0	hr
Suggested Max Moisture	0.040	%
Processing (Melt) Temp	482 to 527	°F
Mold Temperature	104 to 158	°F
Injection Pressure	508 to 1810	psi
Injection Rate	Fast	
Back Pressure	< 145	psi

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Notes

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