Ultradur® B 4300 G6 HR LS BK15045

BASF Corporation - Polybutylene Terephthalate

Monday, November 4, 2019

General Information

Product Description

Ultradur B 4300 G6 HR LS BK15045 is a hydrolysis resistant, laser markable, pigmented black, 30% fiberglass reinforced PBT for rigid and dimensionally stable technical parts.

General	
Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• Good Dimensional Stability • Good Rigidity • Hydrolysis Resistant • Laser Markable
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	• RoHS Compliant
Automotive Specifications	• GM GMW16459P-PBT-GF30W
Appearance	• Black
Forms	• Pellets

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.52	g/cm³	ISO 1183
Viscosity Number (Reduced Viscosity)	105.0	ml/g	ISO 1628
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (73°F)	1.23E+6	psi	ISO 527-2
Tensile Stress (Break, 73°F)	18900	psi	ISO 527-2
Tensile Strain (Break, 73°F)	3.5	%	ISO 527-2
Flexural Modulus (73°F)	1.17E+6	psi	ISO 178
Flexural Stress (73°F)	27300	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	5.2	ft·lb/in²	ISO 179
Charpy Unnotched Impact Strength			ISO 179
-22°F	30	ft·lb/in²	
73°F	33	ft·lb/in²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (66 psi, Unannealed)	428	°F	ISO 75-2/B
Heat Deflection Temperature (264 psi, Unannealed)	401	°F	ISO 75-2/A
Melting Temperature (DSC)	433	°F	ISO 3146

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

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Injection	Nominal Value	Unit
Injection Rate	Fast	
Back Pressure	< 145	psi

Notes

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