Ultradur® B 4330 G6 HR BK15045

BASF Corporation - Polybutylene Terephthalate

Monday, November 4, 2019

General Information

Product Description

Ultradur B 4330 G6 HR BK15045 product is a hydrolysis resistant, pigmented black 30% glass reinforced impact modified injection molding PBT.

General		
Material Status	• Commercial: Active	
Availability	• Asia Pacific	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight	
Additive	• Impact Modifier	
Features	• Hydrolysis Resistant	• Impact Modified
Agency Ratings	• EC 1907/2006 (REACH)	
RoHS Compliance	• RoHS Compliant	
Automotive Specifications	• GM QK 006615 ER Color: 15045 Black	
Appearance	• Black	
Forms	• Pellets	
Processing Method	• Injection Molding	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.49	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/10.0 kg)	46	cm³/10min	ISO 1133
Viscosity Number (Reduced Viscosity)	106.0	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)	17400	psi	ISO 527-2
Tensile Strain (Break, 73°F)	3.4	%	ISO 527-2
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	6.7	ft·lb/in²	ISO 179
Charpy Unnotched Impact Strength			ISO 179
-22°F	29	ft·lb/in²	
73°F	35	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.