

Ultradur® B 2300 G6 HR Unc.

Polybutylene Terephthalate

BASF Corporation

Message:

Ultradur B 2300 G6 HR Unc. is a hydrolysis resistant, 30% fiberglass reinforced PBT, exhibiting superior flow characteristics. Designed for improved latch strength in automotive connectors.

Applications

Ultradur B 2300 G6 HR Unc. was developed for thin walled automotive connectors designed to meet USCAR Class III requirements.

General Information			
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		
Physical	Nominal Value	Unit	Test Method
Density	1.52	g/cm ³	ISO 1183
Viscosity Number (Reduced Viscosity)	90.0	ml/g	ISO 1628
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break, 23°C)	136	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.0	%	ISO 527-2
Flexural Modulus (23°C)	8000	MPa	ISO 178
Flexural Stress (23°C)	198	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	73	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	223	°C	ISO 3146
CLTE			
Flow	1.7E-5	cm/cm/°C	
Transverse	1.2E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	550	V	IEC 60112

Injection	Nominal Value	Unit
Drying Temperature	100 to 120	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.040	%
Processing (Melt) Temp	250 to 275	°C
Mold Temperature	40.0 to 70.0	°C
Injection Pressure	3.50 to 12.5	MPa
Injection Rate	Fast	
Back Pressure	< 1.00	MPa

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