

DURANEX® 522HR

Polybutylene Terephthalate

Polyplastics Co., Ltd.

Message:

DURANEX®522HR is a polybutene terephthalate (PBT) product, which contains a 20% glass fiber reinforced material. It can be processed by injection molding and is available in North America, Europe or the Asia-Pacific region. The main characteristics are: flame retardant/rated flame.

General Information			
UL YellowCard	E213445-101871548		
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Features	Hydrolysis resistance		
Forms	Particle		
Processing Method	Injection molding		
Part Marking Code (ISO 11469)	>PBT-I-GF20		
Physical	Nominal Value	Unit	Test Method
Density	1.39	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	98.0	MPa	ISO 527-2
Tensile Strain (Break)	4.0	%	ISO 527-2
Flexural Modulus	5200	MPa	ISO 178
Flexural Stress	145	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	14	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	200	°C	ISO 75-2/A
Linear thermal expansion coefficient			Internal method
Flow: 23 to 55°C	3.0E-5	cm/cm/°C	Internal method
Lateral: 23 to 55°C	9.0E-5	cm/cm/°C	Internal method
Flammability	Nominal Value		Test Method
Flame Rating (Equivalent)	HB		UL 94
Additional Information	Nominal Value		
Color Number	EF2001/ED3002		
Injection	Nominal Value	Unit	
Drying Temperature	120 - 140	°C	
Drying Time	3.0 - 5.0	hr	
Rear Temperature	250 - 270	°C	
Middle Temperature	250 - 270	°C	
Front Temperature	250 - 270	°C	
Mold Temperature	40 - 80	°C	
Holding Pressure	60.0 - 100	MPa	

Screw Speed

100 - 150

rpm

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Recommended distributors for this material

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