

Clariant PBT PBT-1300G25

Polybutylene Terephthalate

Clariant Corporation

Message:

Clariant PBT PBT-1300G25 is a polybutene terephthalate (PBT) material, which contains a 25% glass fiber reinforced material. This product is available in North America and is processed by injection molding.

The main features of Clariant PBT PBT-1300G25 are:

flame retardant/rated flame

Impact modification

high strength

Hard

Good dimensional stability

Typical application areas include:

Wire and cable

House

engineering/industrial accessories

Conveyor Belt

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 25% filler by weight		
Additive	Impact modifier		
Features	Good dimensional stability		
	Impact modification		
	Rigidity, high		
	High strength		
	Good chemical resistance		
	Heat resistance, high		
	Good toughness		
Uses	Conveyor accessories		
	Engineering accessories		
	Shell		
Agency Ratings	UL 94		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.46	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.60	%	ASTM D955
Water Absorption (24 hr)	0.080	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
Class m	70		ASTM D785
Class r	109		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	103	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	5170	MPa	ASTM D790
Flexural Strength	131	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	160	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	221	°C	ASTM D648
1.8 MPa, not annealed	191	°C	ASTM D648
Melting Temperature	218 - 224	°C	
CLTE - Flow	4.5E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms · cm	ASTM D257
Dielectric Strength	17	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.794 mm	HB		UL 94
1.59 mm	HB		UL 94
3.18 mm	HB		UL 94
6.35 mm	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	232 - 274	°C	
Middle Temperature	232 - 274	°C	
Front Temperature	232 - 274	°C	
Processing (Melt) Temp	232 - 246	°C	
Melt Temperature (Aim)	241	°C	
Mold Temperature	65.6 - 82.2	°C	
Injection Rate	Fast		
Back Pressure	0.345 - 0.689	MPa	
Screw Speed	20 - 80	rpm	
Cushion	3.18 - 6.35	mm	
Injection instructions			

Injection Pressure: Use minimum pressure to achieve 95% fill during the boost inj. pressure phase.Hold Pressure: 30% to 75% of injection pressure.Mold Temp. Target: 165°F Screw Speed Target: 50 RPM

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