

Witcom PBT 6B+G-EC

Polybutylene Terephthalate

Witcom Engineering Plastics B.V.

Message:

Witcom PBT 6B + G-EC is a polybutene terephthalate (PBT) product, which contains 30% glass beads and glass fibers. It can be processed by injection molding and is available in Europe.

Features include:

flame retardant/rated flame

Conductivity

anti-warping

General Information			
Filler / Reinforcement	Glass Beads \Glass Fiber, 30% Filler by Weight		
Features	Conductivity		
	Low warpage		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.54	g/cm ³	ISO 1183
Molding Shrinkage - Flow (3.00 mm)	0.35 - 0.55	%	ISO 2577
Water Absorption			ISO 62
Saturated, 23°C	0.30	%	ISO 62
Equilibrium, 23°C, 50% RH	0.15	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	100	MPa	ISO 527-2
Tensile Strain (Break)	1.5 - 3.5	%	ISO 527-2
Flexural Modulus	6500	MPa	ISO 178
Flexural Stress	135	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	8.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength	45	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	205	°C	ISO 75-2/A
CLTE - Flow	3.5E-5	cm/cm/°C	ISO 11359-2
RTI Imp (3.00 mm)	125	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+4 - 1.0E+6	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	HB		ISO 1210
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	

Drying Time	3.0 - 5.0	hr
Suggested Max Moisture	0.020	%
Processing (Melt) Temp	250 - 270	°C
Mold Temperature	40.0 - 100	°C
Injection Rate	Fast	
Back Pressure	0.00 - 1.00	MPa

Injection instructions

Screw speed: 0.1 - 0.2 m/sInjection pressure: Keep to a minimumHold pressure: Keep to a minimum

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