

Witcom PBT 6G/3L1

Polybutylene Terephthalate

Witcom Engineering Plastics B.V.

Message:

Witcom PBT 6G/3L1 is a Polybutylene Terephthalate (PBT) product filled with 30% glass fiber. It is available in Europe.

Characteristics include:

Flame Rated

Lubricated

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Lubricated		
Physical	Nominal Value	Unit	Test Method
Density	1.65	g/cm ³	ISO 1183
Molding Shrinkage - Flow (3.00 mm)	0.15 to 0.30	%	ISO 2577
Water Absorption			ISO 62
Saturation, 23°C	0.30	%	
Equilibrium, 23°C, 50% RH	0.15	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	< 115	MPa	ISO 527-2
Tensile Strain (Break)	2.0 to 4.0	%	ISO 527-2
Flexural Modulus	8200	MPa	ISO 178
Flexural Stress	185	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	11	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength	55	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	215	°C	ISO 75-2/A
CLTE - Flow	2.9E-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+14	ohms	ASTM D257
Volume Resistivity	1.0E+15	ohms · cm	ASTM D257
Comparative Tracking Index	325	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	HB		ISO 1210
Glow Wire Flammability Index (1.60 mm)	650	°C	IEC 60695-2-12

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