

Witcom PBT 2C-S

Polybutylene Terephthalate

Witcom Engineering Plastics B.V.

Message:

Witcom PBT 2C-S is a Polybutylene Terephthalate (PBT) product filled with 10% carbon fiber. It is available in Europe.

Characteristics include:

Flame Rated

Conductive

General Information			
Filler / Reinforcement	Carbon Fiber,10% Filler by Weight		
Features	Conductive		
Physical	Nominal Value	Unit	Test Method
Density	1.35	g/cm ³	ISO 1183
Molding Shrinkage - Flow (3.00 mm)	0.40 to 0.70	%	ISO 2577
Water Absorption			ISO 62
Saturation, 23°C	0.45	%	
Equilibrium, 23°C, 50% RH	0.20	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	< 105	MPa	ISO 527-2
Tensile Strain (Break)	2.0 to 4.0	%	ISO 527-2
Flexural Modulus	6000	MPa	ISO 178
Flexural Stress	150	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	6.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength	35	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	3.4E-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 to 1.0E+6	ohms	ASTM D257
Volume Resistivity	1.0E+4 to 1.0E+6	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	HB		ISO 1210
Glow Wire Flammability Index (1.60 mm)	750	°C	IEC 60695-2-12

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