

Witcom PC 6C-3L1

Polycarbonate

Witcom Engineering Plastics B.V.

Message:

Witcom PC 6C-3L1 is a Polycarbonate (PC) product filled with 30% carbon fiber. It is available in Europe.

Characteristics include:

Flame Rated

Conductive

Lubricated

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Conductive		
	Lubricated		

Physical	Nominal Value	Unit	Test Method
Density	1.43	g/cm ³	ISO 1183
Molding Shrinkage - Flow (3.00 mm)	0.10 to 0.30	%	ISO 2577
Water Absorption			ISO 62
Saturation, 23°C	0.30	%	
Equilibrium, 23°C, 50% RH	0.10	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	< 135	MPa	ISO 527-2
Tensile Strain (Break)	1.0 to 2.0	%	ISO 527-2
Flexural Modulus	15500	MPa	ISO 178
Flexural Stress	210	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	9.0	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)	135	°C	ISO 75-2/A
CLTE - Flow	1.5E-5	cm/cm/°C	ISO 11359-2
RTI Imp (3.00 mm)	130	°C	UL 746

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	10 to 1.0E+3	ohms	ASTM D257
Volume Resistivity	1.0E+2 to 1.0E+4	ohms · cm	ASTM D257

Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	V-2		ISO 1210
Glow Wire Flammability Index (1.60 mm)	960	°C	IEC 60695-2-12

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