

Witcom PPA 6C/3L1-HS

Polyphthalamide

Witcom Engineering Plastics B.V.

Message:

Witcom PPA 6C/3L1-HS is a Polyphthalamide (PPA) product filled with 30% carbon fiber. It is available in Europe.

Characteristics include:

- Flame Rated
- Conductive
- Heat Stabilizer
- Lubricated

General Information	
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight
Additive	Heat Stabilizer
	PTFE Lubricant (15%)
Features	Conductive
	Heat Stabilized
	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	3.6	%	
Equilibrium, 23°C, 50% RH	1.1	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	< 250	MPa	ISO 527-2
Tensile Strain (Break)	1.0 to 2.0	%	ISO 527-2
Flexural Modulus	22500	MPa	ISO 178
Flexural Stress	340	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	7.5	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)	285	°C	ISO 75-2/A
CLTE - Flow	1.7E-5	cm/cm/°C	ISO 11359-2
RTI Imp (3.00 mm)	130	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+4	ohms	ASTM D257
Volume Resistivity	1.0E+2 to 1.0E+4	ohms · cm	ASTM D257

Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.20 mm)	HB		ISO 1210
Glow Wire Flammability Index (1.60 mm)	750	°C	IEC 60695-2-12

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