

Witcom PA66 3C

Polyamide 66

Witcom Engineering Plastics B.V.

Message:

Witcom PA66 3C is a Polyamide 66 (Nylon 66) product filled with 15% carbon fiber. It is available in Europe. Primary characteristic: flame rated.

General Information			
Filler / Reinforcement	Carbon Fiber,15% Filler by Weight		
Physical	Nominal Value	Unit	Test Method
Density	1.21	g/cm³	ISO 1183
Molding Shrinkage - Flow (3.00 mm)	0.20 to 0.50	%	ISO 2577
Water Absorption			ISO 62
Saturation, 23°C	7.2	%	
Equilibrium, 23°C, 50% RH	2.1	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	< 185	MPa	ISO 527-2
Tensile Strain (Break)	1.5 to 3.5	%	ISO 527-2
Flexural Modulus	9300	MPa	ISO 178
Flexural Stress	245	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	5.5	kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength	45	kJ/m²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	250	°C	ISO 75-2/A
CLTE - Flow	2.8E-5	cm/cm/°C	ISO 11359-2
RTI Imp (3.00 mm)	105	°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+3 to 1.0E+5	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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