

Witcom PA6 3C-HS

Polyamide 6

Witcom Engineering Plastics B.V.

Message:

Witcom PA6 3C-HS is a Polyamide 6 (Nylon 6) product filled with 15% carbon fiber. It is available in Europe.

Characteristics include:

- Flame Rated
- Conductive
- Heat Stabilizer

General Information			
Filler / Reinforcement	Carbon Fiber,15% Filler by Weight		
Additive	Heat Stabilizer		
Features	Conductive		
	Heat Stabilized		

Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm³	ISO 1183
Molding Shrinkage - Flow (3.00 mm)	0.20 to 0.40	%	ISO 2577
Water Absorption			ISO 62
Saturation, 23°C	8.0	%	
Equilibrium, 23°C, 50% RH	2.5	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	< 180	MPa	ISO 527-2
Tensile Strain (Break)	2.0 to 3.0	%	ISO 527-2
Flexural Modulus	9500	MPa	ISO 178
Flexural Stress	250	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	6.0	kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength	55	kJ/m²	ISO 180/1U

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	195	°C	ISO 75-2/A
CLTE - Flow	2.9E-5	cm/cm/°C	ISO 11359-2
RTI Imp (3.00 mm)	95.0	°C	UL 746

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3 to 1.0E+5	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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