

Witcom PA12 2010/039

Polyamide 12

Witcom Engineering Plastics B.V.

Message:

Witcom PA12 2010/039 is a polyamide 12 (nylon 12) product that contains 50% carbon fiber reinforced materials. It can be processed by injection molding and is available in Europe.

Features include:

flame retardant/rated flame

Conductivity

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 50% filler by weight		
Features	Conductivity		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.47	g/cm ³	ISO 1183
Molding Shrinkage - Flow (3.00 mm)	0.10 - 0.30	%	ISO 2577
Water Absorption			ISO 62
Saturated, 23°C	0.75	%	ISO 62
Equilibrium, 23°C, 50% RH	0.35	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	145	MPa	ISO 527-2
Tensile Strain (Break)	1.0 - 3.0	%	ISO 527-2
Flexural Modulus	18000	MPa	ISO 178
Flexural Stress	180	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	7.0	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)	165	°C	ISO 75-2/A
CLTE - Flow	3.0E-5	cm/cm/°C	ISO 11359-2
RTI Imp (3.00 mm)	85.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 10	ohms	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
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	3.0 - 5.0	hr	
Suggested Max Moisture	0.10	%	

Processing (Melt) Temp	240 - 270	°C
Mold Temperature	50.0 - 100	°C
Injection Rate	Fast	
Back Pressure	0.00 - 1.00	MPa

Injection instructions

Screw speed: 0.1 - 0.2 m/sInjection pressure: Keep to a minimumHold pressure: Keep to a minimum

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