

Witcom PA6 2005/43-HF

Polyamide 6

Witcom Engineering Plastics B.V.

Message:

Witcom PA6 2005/43-HF is a polyamide 6 (nylon 6) product that contains fillers. It can be processed by injection molding and is available in Europe. Features include:
flame retardant/rated flame
Flame Retardant
Conductivity
Halogen-free

General Information			
Filler / Reinforcement	Filler		
Additive	Flame retardancy		
Features	Conductivity		
	Halogen-free		
	Flame retardancy		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.33	g/cm³	ISO 1183
Molding Shrinkage - Flow (3.00 mm)	0.20 - 0.40	%	ISO 2577
Water Absorption			ISO 62
Saturated, 23°C	4.2	%	ISO 62
Equilibrium, 23°C, 50% RH	1.3	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	< 140	MPa	ISO 527-2
Tensile Strain (Break)	2.0 - 3.0	%	ISO 527-2
Flexural Modulus	15000	MPa	ISO 178
Flexural Stress	205	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	6.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength	40	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	200	°C	ISO 75-2/A
CLTE - Flow	2.7E-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+4 - 1.0E+6	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.20 mm)	V-0		ISO 1210

Glow Wire Flammability Index (1.60 mm)	960	°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 - 260	°C	
Mold Temperature	50.0 - 90.0	°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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