

Sup-tech B706

Polyamide 6

Shanghai Suptech Engineering Plastics Co. Ltd.

Message:

Sup-tech B706 is a Polyamide 6 (Nylon 6) product filled with 30% glass fiber. It can be processed by injection molding and is available in Asia Pacific. Primary characteristic: flame rated.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.36	g/cm ³	DIN 53479
Molding Shrinkage	1.5E-3 to 5.0E-3	%	DIN 53464
Water Absorption			DIN 53495
23°C, 24 hr	1.1	%	
Saturation, 23°C	5.5	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	170	MPa	DIN 53455
Tensile Strain (Break)	2.0	%	DIN 53452
Flexural Modulus	7500	MPa	DIN 53457
Flexural Stress	230	MPa	DIN 53457
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	13	kJ/m ²	DIN 53453
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			DIN 53461
0.45 MPa, Unannealed	220	°C	
1.8 MPa, Unannealed	205	°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+12	ohms	IEC 60093
Electric Strength	20	kV/mm	DIN 53481
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	90.0	°C	
Drying Time	4.0 to 6.0	hr	
Processing (Melt) Temp	230 to 260	°C	

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