

Sup-tech B705EX

Polyamide 6

Shanghai Suptech Engineering Plastics Co. Ltd.

Message:

Sup-tech B705EX is a Polyamide 6 (Nylon 6) product filled with 25% glass fiber. It can be processed by extrusion or injection molding and is available in Asia Pacific. Primary characteristic: flame rated.

General Information			
Filler / Reinforcement	Glass Fiber,25% Filler by Weight		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.25	g/cm ³	DIN 53479
Molding Shrinkage	1.5E-3 to 5.0E-3	%	DIN 53464
Water Absorption			DIN 53495
	23°C, 24 hr	1.0	%
	Saturation, 23°C	5.0	%
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	116		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	85.0	MPa	DIN 53455
Tensile Strain (Break)	3.0	%	DIN 53452
Flexural Modulus	3800	MPa	DIN 53457
Flexural Stress	100	MPa	DIN 53457
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	18	kJ/m ²	DIN 53453
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			DIN 53461
0.45 MPa, Unannealed	210	°C	
1.8 MPa, Unannealed	190	°C	
Melting Temperature	220	°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	

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