

LIHAN® B705

Polyamide 6
Nanjing Lihan Chemical Co., Ltd.

Message:

LIHAN® B705 is a Polyamide 6 (Nylon 6) product. It can be processed by injection molding and is available in Asia Pacific. Primary characteristic: flame rated.

General Information				
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.31	--	g/cm ³	ISO 1183
Molding Shrinkage	0.20 to 0.60	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.1 to 1.5	--	%	ISO 62
Water Content	6.0 to 8.0	--	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	120	114		ISO 2039-2
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Stress (Break)	145	90.0	MPa	ISO 527-2
Tensile Strain (Break)	3.0	5.0	%	ISO 527-2
Flexural Modulus	6200	4500	MPa	ISO 178
Flexural Stress	190	150	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact Strength	12	18	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	216	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	195	--	°C	ISO 75-2/A
Melting Temperature	220	--	°C	DSC
CLTE - Flow	2.0E-5 to 3.0E-5	6.0E-5 to 7.0E-5	cm/cm/°C	ASTM D696
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+12	1.0E+10	ohms	ASTM D257
Dielectric Strength	17	--	kV/mm	ASTM D149
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.59 mm)	HB	--		UL 94
Injection	Dry	Unit		
Processing (Melt) Temp	260 to 290		°C	
Mold Temperature	80.0 to 90.0		°C	

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