

BESTNYL SI25VI01BX

Polyamide 6

Triesa Plastics

Message:

Polyamide 6 natural lubrified with 25% glass fibre reinforcement and V-0 quality, this material combines good mechanical properties and excellent flame resistance, generally employed in electrical industry or in final pieces that require V-0 quality.

General Information			
Filler / Reinforcement	Glass Fiber,25% Filler by Weight		
Additive	Lubricant		
Features	Flame Retardant		
	Lubricated		
Uses	Electrical/Electronic Applications		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.40	g/cm ³	ISO 1183
Molding Shrinkage	0.35	%	ISO 294-4
Water Absorption (23°C, 24 hr)	1.7	%	ISO 62
Ash Content	25	%	Internal Method
Humidity - Pellets	0.20	%	ISO 1110
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	79		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8700	MPa	ISO 527-2
Tensile Stress	120	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	40	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	215	°C	ISO 75-2/B
1.8 MPa, Unannealed	195	°C	ISO 75-2/A
Vicat Softening Temperature	> 220	°C	ISO 306
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Electric Strength	22	kV/mm	IEC 60243-1

Flammability	Nominal Value	Unit	Test Method
Burning Rate	< 100	mm/min	FMVSS 302
Flame Rating	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	90.0	°C	
Drying Time	2.0 to 4.0	hr	
Processing (Melt) Temp	220 to 230	°C	
Mold Temperature	50.0 to 60.0	°C	

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