

BESTNYL SI30VI01BM

Polyamide 6

Triesa Plastics

Message:

Polyamide 6 natural lubrified with 30% glass fibre reinforcement and impact modified, combines good mechanical characteristics and impact resistance, is perfect for final pieces which final application involves high impact endurance or any kind of mechanical effort.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Impact Modifier		
	Lubricant		
Features	High Impact Resistance		
	Impact Modified		
	Lubricated		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.34	g/cm ³	ISO 1183
Molding Shrinkage	0.40	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.90	%	ISO 62
Ash Content	30	%	Internal Method
Humidity - Pellets	0.20	%	ISO 1110
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	80		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9000	MPa	ISO 527-2
Tensile Stress	155	MPa	ISO 527-2
Tensile Strain (Break)	4.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	80	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	200	°C	ISO 75-2/A
Vicat Softening Temperature	> 200	°C	ISO 306
Electrical	Nominal Value	Unit	Test Method

Surface Resistivity	1.0E+14	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	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time	2.0 to 4.0	hr	
Processing (Melt) Temp	230 to 240	°C	
Mold Temperature	70.0 to 80.0	°C	

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