

BESTNYL SI30VI02BHF

Polyamide 6

Triesa Plastics

Message:

Polyamide 6 black lubrified, heat stabilized with 30% glass fibre reinforcement and glass microsphere, is acknowledged for good mechanical characteristics, dimensional stability and good superficial finish, perfect for welded pieces.

General Information			
Filler / Reinforcement	Glass Bead\Glass Fiber,30% Filler by Weight		
Additive	Heat Stabilizer		
	Lubricant		
Features	Good Dimensional Stability		
	Good Surface Finish		
	Heat Stabilized		
	Lubricated		
	Weldable		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.36	g/cm ³	ISO 1183
Water Absorption (23°C, 24 hr)	0.95	%	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	7500	MPa	ISO 527-2
Tensile Stress	135	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)	45	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	210	°C	ISO 75-2/B
1.8 MPa, Unannealed	190	°C	ISO 75-2/A
Vicat Softening Temperature	> 200	°C	ISO 306

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Electric Strength	40	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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