

BESTNYL SI00VI01BE

Polyamide 6

Triesa Plastics

Message:

Polyamide 6 natural extrution or high viscosity, appropriate for pieces extruded or injected, generally used in plastic tubes, bars and other technical pieces.

General Information	
Additive	Lubricant
Features	High Viscosity
	Lubricated
Uses	Tubing
Appearance	Natural Color
Forms	Pellets
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)	3.0	g/10 min	ISO 1133
Molding Shrinkage	1.1	%	ISO 294-4
Water Absorption (23°C, 24 hr)	1.3	%	ISO 62
Humidity - Pellets	0.20	%	ISO 1110

Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	119		ISO 868

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2800	MPa	ISO 527-2
Tensile Stress	75.0	MPa	ISO 527-2
Tensile Strain (Break)	> 50	%	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)	No Break		ISO 179

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	185	°C	ISO 75-2/B
1.8 MPa, Unannealed	70.0	°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

Flammability	Nominal Value	Unit	Test Method
Burning Rate	< 100	mm/min	FMVSS 302
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	90.0	°C	
Drying Time	2.0 to 4.0	hr	
Processing (Melt) Temp	230 to 255	°C	
Mold Temperature	40.0 to 60.0	°C	

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