

DOMAMID® 6B30

Polyamide 6

DOMO Engineering Plastics SPA

Message:

Polyamide 6, 30% glass beads, for injection moulding.

General Information			
Filler / Reinforcement	Glass Bead,30% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.35	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹ (23°C, 72 hr)	0.70 to 1.1	%	ISO 2577
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4200	MPa	ISO 527-2/1
Tensile Stress (Break)	75.0	MPa	ISO 527-2/5
Tensile Strain (Break)	5.0	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	60	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength (23°C)	6.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength (23°C)	35	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	175	°C	ISO 75-2/B
1.8 MPa, Unannealed	85.0	°C	ISO 75-2/A
Melting Temperature	218 to 222	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms · cm	IEC 60093
Comparative Tracking Index (Solution A)	500	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	HB		UL 94
Glow Wire Flammability Index (1.00 to 3.00 mm)	650	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	
Drying Temperature	75.0 to 95.0	°C	
Drying Time	4.0 to 6.0	hr	
Processing (Melt) Temp	240 to 270	°C	

Mold Temperature	60.0 to 100	°C
NOTE		
1.	50% RH	

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