

DOMAMID® A1-006-N2-N

Polyamide 6

DOMO Engineering Plastics GmbH

Message:

Polyamide 6, fine crystallinity, medium viscosity injection moulding grade, natural

General Information			
Features	Crystalline		
	Medium Viscosity		
Appearance	Natural Color		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.12	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	165	cm ³ /10min	ISO 1133
Molding Shrinkage ¹			ISO 294-4
Across Flow : 23°C, 72 hr	1.0	%	
Flow : 23°C, 72 hr	1.0	%	
Water Absorption ²			ISO 62
Saturation, 23°C	2.4	%	
Equilibrium, 23°C, 50% RH	0.30	%	
Viscosity Number (H2SO4 (Sulphuric Acid))	145	cm ³ /g	ISO 307
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	153	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3500	MPa	ISO 527-2/1A/1
Tensile Stress			ISO 527-2/1A/5
Yield	91.0	MPa	
Break	70.0	MPa	
Tensile Strain			ISO 527-2/1A/5
Yield	3.6	%	
Break	15	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	170	°C	ISO 75-2/B
1.8 MPa, Unannealed	70.0	°C	ISO 75-2/A

Vicat Softening Temperature			
--	216	°C	ISO 306/A50
--	200	°C	ISO 306/B50
Melting Temperature (DSC)	222	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	VDE 0303-3
Volume Resistivity	1.0E+15	ohms·cm	VDE 0303-3
Flammability	Nominal Value	Unit	Test Method
Burning Rate ³ (2.00 mm)	34	mm/min	ISO 3795
Flame Rating			UL 94
1.50 mm	V-2		
3.00 mm	V-2		
Glow Wire Ignition Temperature (2.00 mm)	750	°C	VDE 0471/2
NOTE			
1.	50%RH, between 16 to 72 hrs		
2.	24 hrs		
3.	FMVSS302		

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