

DOMAMID® A1-001-N1-N

Polyamide 6

DOMO Engineering Plastics GmbH

Message:

Polyamide 6, medium viscosity injection moulding grade, Natural

General Information			
Features	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	0.95	%	
Flow : 23°C, 72 hr	1.1	%	
Water Absorption ²			ISO 62
Saturation, 23°C	2.4	%	
Equilibrium, 23°C, 50% RH	0.30	%	
Viscosity Number (H ₂ SO ₄ (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	3400	MPa	ISO 527-2/1A/1
Tensile Stress			ISO 527-2/1A/5
Yield	90.0	MPa	
Break	50.0	MPa	
Tensile Strain			ISO 527-2/1A/5
Yield	4.0	%	
Break	20	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	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	156	°C	ISO 75-2/B
1.8 MPa, Unannealed	66.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	215	°C	ISO 306/A50

--	199	°C	ISO 306/B50
Melting Temperature	221	°C	ISO 11357-3
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
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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