

DOMAMID® A1-007-V20-N

Polyamide 6

DOMO Engineering Plastics GmbH

Message:

Polyamide 6, medium viscosity, 20% glass fiber reinforced, natural

General Information			
UL YellowCard	E329653-100458649		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Medium Viscosity		
Appearance	Natural Color		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	55.0	cm ³ /10min	ISO 1133
Molding Shrinkage ¹			ISO 294-4
Across Flow : 23°C, 72 hr	0.90	%	
Flow : 23°C, 72 hr	0.40	%	
Water Absorption ²			ISO 62
Saturation, 23°C	2.0	%	
Equilibrium, 23°C, 50% RH	0.30	%	
Viscosity Number (H2SO4 (Sulphuric Acid))	145	cm ³ /g	ISO 307
Ash Content (650°C)	20	%	ISO 3451
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6800	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	140	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.5	%	ISO 527-2/1A/5
Flexural Modulus ³	5700	MPa	ISO 178
Flexural Stress ⁴	220	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	65	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	210	°C	ISO 75-2/B
1.8 MPa, Unannealed	195	°C	ISO 75-2/A
Vicat Softening Temperature			
--	215	°C	ISO 306/A50
--	210	°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 ⁵ (2.00 mm)	41	mm/min	ISO 3795
Flame Rating			UL 94
1.50 mm	HB		
3.00 mm	HB		
Glow Wire Ignition Temperature (2.00 mm)	650	°C	VDE 0471/2
NOTE			
1.	50%RH, between 16 to 72 hrs		
2.	24 hrs		
3.	5.0 mm/min		
4.	5.0 mm/min		
5.	FMVSS302		

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