

DOMAMID® A1-021-V15-H2-N

Polyamide 6

DOMO Engineering Plastics GmbH

Message:

Polyamide 6, medium viscosity, 30% glass fiber reinforced, heat stabilised, natural

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
	Medium Viscosity		
Appearance	Natural Color		
Physical	Nominal Value	Unit	Test Method
Density	1.36	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	35.0	cm ³ /10min	ISO 1133
Molding Shrinkage ¹			ISO 294-4
Across Flow : 23°C, 72 hr	1.0	%	
Flow : 23°C, 72 hr	0.35	%	
Water Absorption			ISO 62
23°C, 24 hr	1.7	%	
Equilibrium, 23°C, 50% RH ²	0.20	%	
Viscosity Number (H2SO4 (Sulphuric Acid))	145	cm ³ /g	ISO 307
Ash Content (650°C)	30	%	ISO 3451
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9500	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	180	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.6	%	ISO 527-2/1A/20
Flexural Modulus ³	7200	MPa	ISO 178
Flexural Stress ⁴	270	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	14	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	94	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	220	°C	ISO 75-2/B
1.8 MPa, Unannealed	210	°C	ISO 75-2/A
Vicat Softening Temperature			
--	217	°C	ISO 306/A50

--	214	°C	ISO 306/B50
Melting Temperature	221	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Burning Rate ⁵ (2.00 mm)	40	mm/min	ISO 3795
Glow Wire Ignition Temperature	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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