

DOMAMID® A1-004-V40-N

Polyamide 6

DOMO Engineering Plastics GmbH

Message:

Polyamide 6, medium viscosity, 40% glass fiber reinforced, natural

General Information			
UL YellowCard	E329653-100458649		
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Features	Medium Viscosity		
Appearance	Natural Color		
Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	25.0	cm ³ /10min	ISO 1133
Water Absorption ¹			ISO 62
Saturation, 23°C	1.0	%	
Equilibrium, 23°C, 50% RH	0.10	%	
Viscosity Number (H2SO4 (Sulphuric Acid))	145	cm ³ /g	ISO 307
Ash Content (650°C)	40	%	ISO 3451
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	217	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	12000	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	200	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.0	%	ISO 527-2/1A/5
Flexural Modulus ²	10000	MPa	ISO 178
Flexural Stress ³	310	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	13	kJ/m ²	
23°C	18	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	80	kJ/m ²	
23°C	110	kJ/m ²	
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+15	ohms	VDE 0303-3
Volume Resistivity	1.0E+15	ohms·cm	VDE 0303-3
Flammability	Nominal Value	Unit	Test Method
Burning Rate ⁴ (2.00 mm)	23	mm/min	ISO 3795
Flame Rating			UL 94
1.50 mm	HB		
3.00 mm	HB		
Glow Wire Ignition Temperature			VDE 0471/2
2.00 mm	700	°C	
3.00 mm	700	°C	
NOTE			
1.	24 hrs		
2.	5.0 mm/min		
3.	5.0 mm/min		
4.	FMVSS302		

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