

DOMAMID® A1-003-V30-N

Polyamide 6

DOMO Engineering Plastics GmbH

Message:

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

General Information			
UL YellowCard	E329653-100458649		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Medium Viscosity		
Appearance	Natural Color		
Physical	Nominal Value	Unit	Test Method
Density	1.36	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	40.0	cm ³ /10min	ISO 1133
Molding Shrinkage ¹			ISO 294-4
Across Flow : 23°C, 72 hr	0.95	%	
Flow : 23°C, 72 hr	0.35	%	
Water Absorption ²			ISO 62
Saturation, 23°C	1.7	%	
Equilibrium, 23°C, 50% RH	0.20	%	
Viscosity Number (H2SO4 (Sulphuric Acid))	145	cm ³ /g	ISO 307
Ash Content (650°C)	30	%	ISO 3451
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	217	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9300	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/5
Flexural Modulus ³	7200	MPa	ISO 178
Flexural Stress ⁴	270	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	11	kJ/m ²	
23°C	14	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	75	kJ/m ²	
23°C	95	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+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)	40	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		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT