DOMAMID® A1-023-V30-N

Polyamide 6

DOMO Engineering Plastics GmbH

Message:

Polyamide 6, medium viscosity, 30% glass fiber reinforced, natural - rapid solidification

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/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	45.0	cm³/10min	ISO 1133
Molding Shrinkage [1]			ISO 294-4
Across Flow : 23°C, 72 hr	1.0	%	
Flow : 23°C, 72 hr	0.30	%	
Water Absorption [2]			ISO 62
Saturation, 23°C	1.7	%	
Equilibrium, 23°C, 50% RH	0.20	%	
Viscosity Number (H2SO4 (Sulphuric Acid))	145	cm³/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	9500	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	181	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.0	%	ISO 527-2/1A/5
Flexural Modulus [3]	7250	MPa	ISO 178
Flexural Stress [4]	270	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	12	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	95	kJ/m²	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	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
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		

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