

Domamid A1-111-V50-B

Polyamide 6, 50% Glass Fiber reinforced, High Flow, Natural
Preliminary Datasheet

Properties	Unit	Test method	Value	
General Properties				
Density	g/cm ³	ISO 1183/A	1.56	
Ash content (650°C)	%	ISO 3451	50	
Viscosity number (formic acid)		ISO 307	-	
Melt Volume Flow Rate - MVR (275°C/ 5 kg)	cm ³ /10 min	ISO 1133	30	
Moisture absorption (23°C/50% RH, 24 h)	%	ISO R 62		
Water absorption (23°C, 24 h in water)	%	ISO R 62		
Moulding shrinkage (after 120 hrs, 23°C, 50% RH)				
length	%	ISO 2577	-	
width	%	ISO 2577	-	
Mechanical properties (Dry as Molded)				
Tensile modulus of elasticity (v = 1 mm/min)	MPa	ISO 527-1A	16700	
Tensile yield stress (v = 5 mm/min)	MPa	ISO 527-1A	-	
Tensile yield strain (v = 5 mm/min)	%	ISO 527-1A	-	
Tensile stress at break (v = 5 mm/min)	MPa	ISO 527-1A	220	
Tensile strain at break (v = 5 mm/min)	%	ISO 527-1A	2.2	
Flexural modulus (v = 5 mm/min)	MPa	ISO 178	13000	
Flexural strength (v = 5 mm/min)	MPa	ISO 178	330	
Charpy impact strength notched	+ 23°C	kJ/m ²	ISO 179/1eA	15
	- 30°C	kJ/m ²	ISO 179/1eA	-
Charpy impact strength unnotched	+ 23°C	kJ/m ²	ISO 179/1eU	100
	- 30°C	kJ/m ²	ISO 179/1eU	-
Ball indentation hardness	N/mm ²	ISO 2039-1		
Thermal properties				
Melting point, DSC	°C	ISO 3146		
Heat deflection temperature:				
- HDT/A (1.8 MPa)	°C	ISO 75-2		
- HDT/B (0.45 MPa)	°C	ISO 75-2		
Vicat softening temperature:				
- VST/A/50 (10N)	°C	ISO 306		
- VST/B/50 (50N)	°C	ISO 306		
Burning Behaviour				
Burning rate (FMVSS302) 2mm	mm/min	ISO 3795		
Glow wire temperature 2mm	°C	VDE 0471-2		
Glow wire temperature 3 mm	°C	VDE 0471-2		
Flammability UL 94, thickness 1.5 mm		UL 94		
Flammability UL 94, thickness 3.0 mm		UL 94		
Electrical properties				
Volume resistivity	Ohm.cm	VDE 0303-3		
Surface resistivity	Ohm	VDE 0303-3		

For more information:

Domo Engineering Plastics GmbH, Paul-Schlack-Straße, 14727 Premnitz, Germany
Tel: +49 (0)3386 24 2276 Fax: +49 (0)3386 24 2266 Email: compounds@domo.org

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