

## Domamid A1-021-V15-H2-DB

Polyamide 6, medium viscosity, 15% glass fiber reinforced, heat stabilised, deep black

Properties	Unit	Test method	Value	
<b>General Properties</b>				
Density	g/cm <sup>3</sup>	ISO 1183/A	1.23	
Ash content (650°C)	%	ISO 3451	15	
Viscosity number (sulfuric acid)	cm <sup>3</sup> /g	ISO 307	138	
Melt Volume Flow Rate - MVR (275°C/ 5 kg)	cm <sup>3</sup> /10 min	ISO 1133	75	
Moisture absorption (23°C/50% RH, 24 h)	%	ISO R 62	-	
Water absorption (23°C, 24 h in water)	%	ISO R 62	-	
Moulding shrinkage (between 16-72 hrs, 23°C, 50% RH)				
length	%	ISO 2577	0.6	
width	%	ISO 2577	1.20	
<b>Mechanical properties (Dry as Molded)</b>				
Tensile modulus of elasticity (v = 1 mm/min)	MPa	ISO 527-1A	6200	
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	120	
Tensile strain at break (v = 5 mm/min)	%	ISO 527-1A	2.5	
Flexural modulus (v = 5 mm/min)	MPa	ISO 178	4600	
Flexural strength (v = 5 mm/min)	MPa	ISO 178	185	
Charpy impact strength notched				
	+ 23°C	kJ/m <sup>2</sup>	ISO 179/1eA	5.5
	- 30°C	kJ/m <sup>2</sup>	ISO 179/1eA	-
Charpy impact strength unnotched				
	+ 23°C	kJ/m <sup>2</sup>	ISO 179/1eU	37
	- 30°C	kJ/m <sup>2</sup>	ISO 179/1eU	-
Ball indentation hardness	N/mm <sup>2</sup>	ISO 2039-1	-	
<b>Thermal properties</b>				
Melting point, DSC	°C	ISO 11357-1	221	
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		
<b>Burning Behaviour</b>				
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		
<b>Electrical properties</b>				
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](mailto:compounds@domo.org)

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