

Domamid A1-002-V15-N

Polyamide 6, medium viscosity, 15% glass fiber reinforced, natural

Properties	Unit	Test method	Value
General Properties			
Density	g/cm ³	ISO 1183/A	1.24
Ash content (650°C)	%	ISO 3451	15
Viscosity number (sulfuric acid)		ISO 307	145
Melt Volume Flow Rate - MVR (275°C/ 5 kg)	cm ³ /10 min	ISO 1133	60
Moisture absorption (23°C/50% RH, 24 h)	%	ISO R 62	0.3
Water absorption (23°C, 24 h in water)	%	ISO R 62	2.2
Moulding shrinkage (between 16-72 hrs, 23°C, 50% RH)			
length	%	ISO 2577	0.45
width	%	ISO 2577	0.95
Mechanical properties (Dry as Molded)			
Tensile modulus of elasticity (v = 1 mm/min)	MPa	ISO 527-1A	5600
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	125
Tensile strain at break (v = 5 mm/min)	%	ISO 527-1A	3.7
Flexural modulus (v = 5 mm/min)	MPa	ISO 178	4540
Flexural strength (v = 5 mm/min)	MPa	ISO 178	197
Charpy impact strength notched			
+ 23°C	kJ/m ²	ISO 179/1eA	6.5
- 30°C	kJ/m ²	ISO 179/1eA	5.0
Charpy impact strength unnotched			
+ 23°C	kJ/m ²	ISO 179/1eU	48
- 30°C	kJ/m ²	ISO 179/1eU	40
Ball indentation hardness	N/mm ²	ISO 2039-1	190
Thermal properties			
Melting point, DSC	°C	ISO 11357-1	221
Heat deflection temperature:			
- HDT/A (1.8 MPa)	°C	ISO 75-2	175
- HDT/B (0.45 MPa)	°C	ISO 75-2	207
Vicat softening temperature:			
- VST/A/50 (10N)	°C	ISO 306	215
- VST/B/50 (50N)	°C	ISO 306	210
Burning Behaviour			
Burning rate (FMVSS302) 2mm	mm/min	ISO 3795	42
Glow wire temperature 2mm	°C	VDE 0471-2	650
Glow wire temperature 3 mm	°C	VDE 0471-2	-
Flammability UL 94, thickness 1.5 mm		UL 94	HB
Flammability UL 94, thickness 3.0 mm		UL 94	HB
Electrical properties			
Volume resistivity	Ohm.cm	VDE 0303-3	10 ¹⁵
Surface resistivity	Ohm	VDE 0303-3	10 ¹⁴

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