

Domamid A1-026-B20 V10-B

Polyamide 6, 20% glass bead & 10% glass fiber reinforced, black

Properties	Unit	Test method	Value
General Properties			
Density	g/cm ³	ISO 1183/A	1.33
Ash content (650°C)	%	ISO 3451	30
Viscosity number (sulfuric acid)	cm ³ /g	ISO 307	145
Melt Volume Flow Rate - MVR (275°C/ 5 kg)	cm ³ /10 min	ISO 1133	55
Moisture absorption (23°C/50% RH, 24 h)	%	ISO R 62	0.2
Water absorption (23°C, 24 h in water)	%	ISO R 62	1.8
Moulding shrinkage (between 16-72 hrs, 23°C, 50% RH)			
length	%	ISO 2577	0.7
width	%	ISO 2577	1.2
Mechanical properties (Dry as Molded)			
Tensile modulus of elasticity (v = 1 mm/min)	MPa	ISO 527-1A	5900
Tensile yield stress (v = 5 mm/min)	MPa	ISO 527-1A	115
Tensile yield strain (v = 5 mm/min)	%	ISO 527-1A	-
Tensile stress at break (v = 5 mm/min)	MPa	ISO 527-1A	115
Tensile strain at break (v = 5 mm/min)	%	ISO 527-1A	3
Flexural modulus (v = 5 mm/min)	MPa	ISO 178	4800
Flexural strength (v = 5 mm/min)	MPa	ISO 178	185
Charpy impact strength notched			
+ 23°C	kJ/m ²	ISO 179/1eA	4
- 30°C	kJ/m ²	ISO 179/1eA	-
Charpy impact strength unnotched			
+ 23°C	kJ/m ²	ISO 179/1eU	40
- 30°C	kJ/m ²	ISO 179/1eU	-
Ball indentation hardness	N/mm ²	ISO 2039-1	-
Thermal properties			
Melting point, DSC	°C	ISO 11357-1	222
Heat deflection temperature:			
- HDT/A (1.8 MPa)	°C	ISO 75-2	200
- HDT/B (0.45 MPa)	°C	ISO 75-2	215
Vicat softening temperature:			
- VST/A/50 (10N)	°C	ISO 306	-
- VST/B/50 (50N)	°C	ISO 306	-
Burning Behaviour			
Burning rate (FMVSS302) 2 mm	mm/min	ISO 3795	-
Glow wire temperature 2 mm	°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	10 ¹⁵
Surface resistivity	Ohm	VDE 0303-3	10 ¹⁴

For more information:

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