

Domamid A1-006-N2-N

Polyamide 6, fine crystallinity, medium viscosity injection moulding grade, natural

Properties	Unit	Test method	Value	
General Properties				
Density	g/cm ³	ISO 1183/A	1.12	
Ash content (650°C)	%	ISO 3451	-	
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	165	
Moisture absorption (23°C/50% RH, 24 h)	%	ISO R 62	0.3	
Water absorption (23°C, 24 h in water)	%	ISO R 62	2.4	
Moulding shrinkage (between 16-72 hrs, 23°C, 50% R H)				
length	%	ISO 2577	1.0	
width	%	ISO 2577	1.0	
Mechanical properties (Dry as Molded)				
Tensile modulus of elasticity (v = 1mm/min)	MPa	ISO 527-1A	3500	
Tensile yield stress (v = 5 mm/min)	MPa	ISO 527-1A	91	
Tensile yield strain (v = 5 mm/min)	%	ISO 527-1A	3.5	
Tensile stress at break (v = 5 mm/min)	MPa	ISO 527-1A	70	
Tensile strain at break (v = 5 mm/min)	%	ISO 527-1A	15	
Charpy impact strength notched	+ 23°C	kJ/m ²	ISO 179/1eA	4.5
	- 30°C	kJ/m ²	ISO 179/1eA	-
Charpy impact strength unnotched	+ 23°C	kJ/m ²	ISO 179/1eU	N
	- 30°C	kJ/m ²	ISO 179/1eU	-
Ball indentation hardness	N/mm ²	ISO 2039-1	153	
Thermal properties				
Melting point, DSC	°C	ISO 3146	222	
Heat deflection temperature:				
- HDT/A (1.8 MPa)	°C	ISO 75-2	70	
- HDT/B (0.45 MPa)	°C	ISO 75-2	170	
Vicat softening temperature:				
- VST/A/50 (10N)	°C	ISO 306	216	
- VST/B/50 (50N)	°C	ISO 306	200	
Burning Behaviour				
Burning rate (FMVSS302) 2mm	mm/min	ISO 3795	34	
Glow wire temperature 2mm	°C	VDE 0471-2	750	
Glow wire temperature 3 mm	°C	VDE 0471-2	-	
Flammability UL 94, thickness 1.5 mm		UL 94	V-2	
Flammability UL 94, thickness 3.0 mm		UL 94	V-2	
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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