


## DOMAMID 6N2FC NC

Polyamide 6, for injection moulding, natural color

Typical properties	Condition	Standard	Unit	Value
<b>Product identification</b>				
ISO 1043 abbreviation	PA6			
ISO 16396 designation	PA6,M1,S14-030			
<b>Physical properties</b>				
Density		ISO 1183	g/cm <sup>3</sup>	1.13
Humidity absorption	T=23°C / 50%RH	ISO 62	%	3
Molding shrinkage, parallel	72 hrs, 23°C, 50% RH	ISO 294-4, 2577	%	0.9 - 1.1
Molding shrinkage, normal	72 hrs, 23°C, 50% RH	ISO 294-4, 2577	%	0.9 - 1.1
Melt volume-flow rate, MVR, 5.0 kg	275°C, 5kg	ISO 1133	cm <sup>3</sup> /10 min	165
Viscosity number	96% H2SO4	ISO 307	cm <sup>3</sup> /g	145
<b>Mechanical properties</b>				
				<b>dam / cond.*</b>
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	3500 / 1900
Stress at break	50 mm/min	ISO 527-1/-2	MPa	70 / 45
Strain at break	50 mm/min	ISO 527-1/-2	%	15 / 25
Yield stress	50 mm/min	ISO 527-1/-2	MPa	85 / 50
Flexural modulus	2 mm/min	ISO 178	MPa	2800 / 1500
Flexural strength	2 mm/min	ISO 178	MPa	100 / 50
Charpy impact strength, +23°C	+23°C	ISO 179/1eU		NB / NB
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m <sup>2</sup>	4.5 / 6.5
<b>Thermal properties</b>				
Melting temperature, 10°C/min		ISO 11357-1	°C	221
Temp. of deflection under load, 0.45 MPa	0.45 MPa	ISO 75	°C	170
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	70
Vicat softening temperature	50°C/h - 50N	ISO 306	°C	200
<b>Electrical properties</b>				
Volume resistivity		IEC 62631-3-1	ohm.m	1E+016
Surface resistivity		IEC 62631-3-1	ohm	1E+015
<b>Burning behaviour</b>				
UL Yellow Card availability 	Click here to have access to the UL Yellow Card → <a href="https://www.ul.com/Products/Plastics/PA6-M1-S14-030">E329653-100985460</a>			

Typical properties	Condition	Standard	Unit	Value
Flammability, 1.5 mm	1.5 mm	UL 94		V-2
Glow-wire flammability index, GWFI	1-3 mm	IEC 60695-2-12	°C	850
Glow-wire ignition temperature, GWIT	1-3 mm	IEC 60695-2-13	°C	900
Burning rate, FMVSS, Thickness 1 mm		FMVSS 302		< 100 mm/min

*Test run at 23°C if not differently specified, DAM state (dry as moulded).  
\*: conditioned according to ISO 1110*

## Processing conditions

Drying temperature/time	75-85°C / 2-4h (with dew point of dried air < -30 °C)
Recommended melt temperature	240 - 280
Recommended mould temperature	60 - 80

*These parameters are typical of the product but should be related to the type of machinery used and to the type of moulded part.*

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