


DOMAMID 6G30 300 NC

Polyamide 6, 30% glass fiber reinforced, for injection moulding, natural color

Typical properties	Condition	Standard	Unit	Value
Product identification				
ISO 1043 abbreviation	PA6-GF30			
ISO 16396 designation	PA6,GF30,M1,S14-090			
Physical properties				
Density		ISO 1183	g/cm ³	1.36
Humidity absorption	T=23°C / 50%RH	ISO 62	%	2.1
Molding shrinkage, parallel	72 hrs, 23°C, 50% RH	ISO 294-4, 2577	%	0.25 - 0.45
Molding shrinkage, normal	72 hrs, 23°C, 50% RH	ISO 294-4, 2577	%	0.85 - 1.05
Melt volume-flow rate, MVR, 5.0 kg	275°C, 5kg	ISO 1133	cm ³ /10 min	40
Viscosity number	96% H2SO4	ISO 307	cm ³ /g	145
Mechanical properties				
				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	9500 / 5300
Stress at break	5 mm/min	ISO 527-1/-2	MPa	170 / 110
Strain at break	5 mm/min	ISO 527-1/-2	%	4 / 9
Flexural modulus	2 mm/min	ISO 178	MPa	7200 / 4500
Flexural strength	2 mm/min	ISO 178	MPa	270 / 150
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m ²	95 / 110
Charpy impact strength, -30°C	-30°C	ISO 179/1eU	kJ/m ²	75
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m ²	14 / 25
Charpy notched impact strength, -30°C	-30°C	ISO 179/1eA	kJ/m ²	11
Thermal properties				
Melting temperature, 10°C/min		ISO 11357-1	°C	221
Temp. of deflection under load, 0.45 MPa	0.45 MPa	ISO 75	°C	220
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	205
Vicat softening temperature	50°C/h - 50N	ISO 306	°C	214
Electrical properties				
Volume resistivity		IEC 62631-3-1	ohm.m	1E+013
Surface resistivity		IEC 62631-3-1	ohm	1E+014
Comparative tracking index	Solution A	IEC 60112	V	500

Typical properties	Condition	Standard	Unit	Value
Burning behaviour				
UL Yellow Card availability 	Click here to have access to the UL Yellow Card → E329653-100458649			
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	250 - 290
Recommended mould temperature	80 - 100

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

Disclaimer: The information provided in this documentation corresponds to our technical knowledge at the date of its publication and do not constitute a specification. This information may be subject to revision at our discretion. Domo cannot anticipate all conditions under which this information and our products of other manufactures in combination with our products may be used. Domo accepts no responsibility for results obtained by the application of this information or for the safety and suitability of our products alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each product or product combination for their own purposes. Unless otherwise agreed in writing, Domo sells the product without warranties. Buyers and users assume all responsibility and liability for loss or damage arising from handling and use of our products, whether used alone or in combination with other products. Unless specifically indicated, the grades mentioned are not suitable for applications in the pharmaceutical/medical sector.