

## DOMAMID 6G30IK1 202 NC

Polyamide 6, 30% glass fiber reinforced, low temperature impact modified, for injection moulding, natural color

Typical properties	Condition	Standard	Unit	Value
<b>Product identification</b>				
ISO 1043 abbreviation	PA6-I-GF30			
ISO 16396 designation	PA6-I,GF30,M1,S14-090			
<b>Physical properties</b>				
Density		ISO 1183	g/cm <sup>3</sup>	1.34
Humidity absorption	T=23°C / 50%RH	ISO 62	%	2 - 2.5
Water absorption	T=23°C / sat.	ISO 62	%	6 - 7
Molding shrinkage, parallel	72 hrs, 23°C, 50% RH	ISO 294-4, 2577	%	0.1 - 0.3
Molding shrinkage, normal	72 hrs, 23°C, 50% RH	ISO 294-4, 2577	%	0.5 - 0.7
<b>Mechanical properties</b>				
				<b>dam / cond.*</b>
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	9300 / 5300
Stress at break	5 mm/min	ISO 527-1/-2	MPa	150 / 110
Strain at break	5 mm/min	ISO 527-1/-2	%	4 / 10
Flexural modulus	2 mm/min	ISO 178	MPa	7300 / 4400
Flexural strength	2 mm/min	ISO 178	MPa	240 / 150
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m <sup>2</sup>	100 / 110
Charpy impact strength, -30°C	-30°C	ISO 179/1eU	kJ/m <sup>2</sup>	100 / 100
Charpy impact strength		ISO 179/1eU	kJ/m <sup>2</sup>	90 / -40°C
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m <sup>2</sup>	20 / 32
Charpy notched impact strength, -30°C	-30°C	ISO 179/1eA	kJ/m <sup>2</sup>	13 / 14
Charpy notched impact strength		ISO 179/1eA	kJ/m <sup>2</sup>	12 / -40°C
<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	210
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	205
<b>Electrical properties</b>				
Volume resistivity		IEC 62631-3-1	ohm.m	1E+015
Surface resistivity		IEC 62631-3-1	ohm	1E+013

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<b>Burning behaviour</b>				
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*

<b>Processing conditions</b>	
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.*

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