

### DOMAMID® 6G30H2 NC

(DOMAMID A1-008-V30-H2-N)

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

19.09.2016

TYPICAL PROPERTIES	CONDITION	STANDARD	UNIT	VALUE
<b>PRODUCT IDENTIFICATION</b>				
ISO 1043 abbreviation		ISO 1043		PA6-GF30
<b>PHYSICAL</b>				
Density		ISO 1183	[g/cm <sup>3</sup> ]	1,36
Moisture absorption	sat., 23°C, 50% RH	ISO 62	[%]	2,3
Mold shrinkage parallel	72 hrs, 23°C, 50% RH	ISO 2577	[%]	0,25 - 0,45
Mold shrinkage transverse	72 hrs, 23°C, 50% RH	ISO 2577	[%]	0,85 - 1,05
<b>RHEOLOGICAL</b>				
Melt Volume Rate (MVR)	275 °C - 5,0 kg	ISO 1133	[cm <sup>3</sup> /10 min]	35
Viscosity number	96% H <sub>2</sub> SO <sub>4</sub>	ISO 307	[ml/g]	145
<b>MECHANICAL</b>				
Tensile modulus	1 mm/min	ISO 527	[MPa]	9500
Tensile stress at break	5 mm/min	ISO 527	[MPa]	180
Tensile strain at break	5 mm/min	ISO 527	[%]	3,6
Flexural modulus	5 mm/min	ISO 178	[MPa]	7200
Flexural strength	5 mm/min	ISO 178	[MPa]	270
Charpy unnotched	+23 °C	ISO 179/1eU	[kJ/m <sup>2</sup> ]	94
Charpy notched	+23 °C	ISO 179/1eA	[kJ/m <sup>2</sup> ]	14
<b>THERMAL</b>				
Melting point		ISO 11357-1	[°C]	221
Heat Deflection Temperature (HDT-B)	0,45 MPa	ISO 75	[°C]	220
Heat Deflection Temperature (HDT-A)	1,80 MPa	ISO 75	[°C]	210
VICAT softening temperature	50°C/h - 50N	ISO 306	[°C]	214
<b>ELECTRICAL</b>				
Volume resistivity		IEC 60093	[Ω·cm]	1E+15
Surface resistivity		IEC 60093	[Ω]	1E+14
<b>BURNING BEHAVIOUR</b>				
Burning rate (FMVSS)		FMVSS 302	[mm/min]	< 100

Test run at 23°C if not differently specified, DAM state (dry as moulded).

#### PROCESSING CONDITIONS:

Drying temperature/time : 75-85°C / 2-4h (with dew point of dried air < -30 °C)  
 Recommended melt temperature : 250-290 °C  
 Recommended mould temperature : 80-100 °C

*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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