

## DOMAMID® 6LVG50H2 BK

(DOMAMID A1-125-V50-H2-DB)

Polyamide 6, 50% glass fiber reinforced, improved flowability, heat stabilized, for injection moulding, black

19.09.2016

TYPICAL PROPERTIES	CONDITION	STANDARD	UNIT	VALUE
<b>PRODUCT IDENTIFICATION</b>				
ISO 1043 abbreviation		ISO 1043		PA6-GF50
<b>PHYSICAL</b>				
Density		ISO 1183	[g/cm <sup>3</sup> ]	1,56
Moisture absorption	sat., 23°C, 50% RH	ISO 62	[%]	1,6
Mold shrinkage parallel	72 hrs, 23°C, 50% RH	ISO 2577	[%]	0,30 - 0,50
Mold shrinkage transverse	72 hrs, 23°C, 50% RH	ISO 2577	[%]	1,00 - 1,20
<b>RHEOLOGICAL</b>				
Melt Volume Rate (MVR)	275 °C - 5,0 kg	ISO 1133	[cm <sup>3</sup> /10 min]	30
Viscosity number	96% H2SO4	ISO 307	[ml/g]	125
<b>MECHANICAL</b>				
				dam / cond.*
Tensile modulus	1 mm/min	ISO 527	[MPa]	16500 / 11000
Tensile stress at break	5 mm/min	ISO 527	[MPa]	225 / 150
Tensile strain at break	5 mm/min	ISO 527	[%]	2,5 / 4,0
Flexural modulus	5 mm/min	ISO 178	[MPa]	14000 / 10000
Flexural strength	5 mm/min	ISO 178	[MPa]	350 / 220
Charpy unnotched	+23 °C	ISO 179/1eU	[kJ/m <sup>2</sup> ]	90 / 100
Charpy notched	+23 °C	ISO 179/1eA	[kJ/m <sup>2</sup> ]	17 / 25
<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

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 °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.*

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.