

## DOMAMID® XS 66V65H1

Polyamide 66 alloy, 65% glass fiber, heat stabilized, low warpage  
preliminary datasheet

27.02.2016

TYPICAL PROPERTIES	CONDITION	STANDARD	UNIT	VALUE
<b>PHYSICAL</b>				
Density		ISO 1183	[g/cm <sup>3</sup> ]	1,78
Moisture absorption	T=23°C / 50%RH	ISO 62	[%]	1,15
Water absorption	T=23°C / sat.	ISO 62	[%]	3,25
<b>RHEOLOGICAL</b>				
Melt Volume Rate (MVR)	5Kg	ISO 1133	[cm <sup>3</sup> /10 min]	10
<b>MECHANICAL</b>				
				dam / cond.*
Tensile modulus	1 mm/min	ISO 527	[MPa]	25500 / 25000
Tensile stress at break	5 mm/min	ISO 527	[MPa]	290 / 270
Tensile strain at break	5 mm/min	ISO 527	[%]	2,0 / 2,0
Flexural modulus	2 mm/min	ISO 178	[MPa]	22500 / -
Flexural strength	2 mm/min	ISO 178	[MPa]	480 / -
Charpy unnotched	+23 °C	ISO 179/1eU	[kJ/m <sup>2</sup> ]	90 / 85
Charpy notched	+23 °C	ISO 179/1eA	[kJ/m <sup>2</sup> ]	20 / 20
<b>THERMAL</b>				
Melting point	DSC	ISO 11357-1	[°C]	262
Heat Deflection Temperature (HDT-A)	1,80 MPa	ISO 75	[°C]	235
<b>ELECTRICAL</b>				
Volume resistivity		IEC 60093	[Ω·cm]	>1E12
<b>BURNING BEHAVIOUR</b>				
Flammability		UL 94	[Class]	HB

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 : 280-305 °C  
 Recommended mould temperature : 70-100 °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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