

DOMAMID® XS 66V50H1

Polyamide 66 alloy, 50% glass fiber, heat stabilized, low warpage
preliminary datasheet

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TYPICAL PROPERTIES	CONDITION	STANDARD	UNIT	VALUE
PHYSICAL				
Density		ISO 1183	[g/cm ³]	1,59
Moisture absorption	T=23°C / 50%RH	ISO 62	[%]	1,4
Water absorption	T=23°C / sat.	ISO 62	[%]	4
RHEOLOGICAL				
Melt Volume Rate (MVR)	5Kg	ISO 1133	[cm ³ /10 min]	20,5
MECHANICAL				
				dam / cond.*
Tensile modulus	1 mm/min	ISO 527	[MPa]	18000 / 17000
Tensile stress at break	5 mm/min	ISO 527	[MPa]	265 / 235
Tensile strain at break	5 mm/min	ISO 527	[%]	2,6 / 2,6
Flexural modulus	2 mm/min	ISO 178	[MPa]	16000 / -
Flexural strength	2 mm/min	ISO 178	[MPa]	420 / -
Charpy unnotched	+23 °C	ISO 179/1eU	[kJ/m ²]	105 / 100
Charpy notched	+23 °C	ISO 179/1eA	[kJ/m ²]	18 / 17
THERMAL				
Melting point	DSC	ISO 11357-1	[°C]	262
Heat Deflection Temperature (HDT-A)	1,80 MPa	ISO 75	[°C]	235
ELECTRICAL				
Volume resistivity		IEC 60093	[Ω·cm]	>1E12
BURNING BEHAVIOUR				
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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