

DOMAMID® 6G40

Polyamide 6, 40% glass fibre, for injection moulding.

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TYPICAL PROPERTIES	CONDITION	STANDARD	UNIT	VALUE
PHYSICAL				
Density		ISO 1183	[g/cm ³]	1,46
MECHANICAL				
Tensile modulus	1 mm/min	ISO 527	[MPa]	13000
Tensile stress at break	5 mm/min	ISO 527	[MPa]	195
Tensile strain at break	5 mm/min	ISO 527	[%]	3
Izod impact notched	+23 °C	ISO 180/1A	[kJ/m ²]	17
Hardness Rockwell		ISO 2039/2	[ScaleR]	122
THERMAL				
Melting point		ISO 11357-1	[°C]	220 ± 2
Heat Deflection Temperature (HDT-B)	0,45 MPa	ISO 75	[°C]	220
Heat Deflection Temperature (HDT-A)	1,80 MPa	ISO 75	[°C]	200
VICAT softening temperature	50°C/h - 50N	ISO 306	[°C]	215
ELECTRICAL				
Volume resistivity		IEC 93	[Ω·cm]	10 ¹⁵
Surface resistivity		IEC 93	[Ω]	10 ¹³
Comparative Tracking Index (CTI)	Solution A	IEC 112	[V]	500
BURNING BEHAVIOUR				
Flammability	0,8 mm	UL 94	[Class]	HB
Burning rate (FMVSS)		FMVSS 302	[mm/min]	< 100

Test run at 23°C if not differently specified, DAM state (dry as moulded), valid for natural colored products

PROCESSING CONDITIONS:

Drying temperature/time	: 75÷95°C/4÷6h
Recommended melt temperature	: 240÷270 °C
Recommended mould temperature	: 90÷120 °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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