



DOMAMID[®] 6G40HUV

Polyamide 6, 40% glass fiber reinforced, heat and UV stabilized, for injection moulding.

TYPICAL PROPERTIES	CONDITION	STANDARD	UNIT	VALUE
PHYSICAL				
Density		ISO 1183	[g/cm ³]	1,46
Mold shrinkage parallel	72 hrs, 23°C, 50% RH	ISO 2577	[%]	0,2 ÷ 0,4
Mold shrinkage transverse	72 hrs, 23°C, 50% RH	ISO 2577	[%]	0,7 ÷ 0,9
RHEOLOGICAL				
Viscosity number		ISO 307	[ml/g]	145
MECHANICAL				
Tensile modulus	1 mm/min	ISO 527	[MPa]	13000
Tensile stress at break	5 mm/min	ISO 527	[MPa]	200
Tensile strain at break	5 mm/min	ISO 527	[%]	2,5
Flexural modulus	2 mm/min	ISO 178	[MPa]	10500
Flexural strength	2 mm/min	ISO 178	[MPa]	280
Charpy unnotched	+23 °C	ISO 179/1eU	[kJ/m ²]	105
Charpy notched	+23 °C	ISO 179/1eA	[kJ/m ²]	20
Izod impact unnotched	+23 °C	ISO 180/1A	[kJ/m ²]	95
Izod impact notched	+23 °C	ISO 180/1A	[kJ/m ²]	18
THERMAL				
Melting point	DSC	ISO 11357-1	[°C]	222
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
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 / 2-4h
Recommended melt temperature	: 240-280 °C
Recommended mould temperature	: 90-100 °C