



## DOMAMID<sup>®</sup> 6G40AF

Polyamide 6, 40% glass fiber reinforced, improved flowability, for injection moulding.

TYPICAL PROPERTIES	CONDITION	STANDARD	UNIT	VALUE
<b>PHYSICAL</b>				
Density		ISO 1183	[g/cm <sup>3</sup> ]	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
<b>RHEOLOGICAL</b>				
Viscosity number		ISO 307	[ml/g]	125
<b>MECHANICAL</b>				
Tensile modulus	1 mm/min	ISO 527	[MPa]	12000
Tensile stress at break	5 mm/min	ISO 527	[MPa]	190
Tensile strain at break	5 mm/min	ISO 527	[%]	2,5
Flexural modulus	2 mm/min	ISO 178	[MPa]	10000
Flexural strength	2 mm/min	ISO 178	[MPa]	275
Charpy unnotched	+23 °C	ISO 179/1eU	[kJ/m <sup>2</sup> ]	100
Charpy notched	+23 °C	ISO 179/1eA	[kJ/m <sup>2</sup> ]	19
Izod impact unnotched	+23 °C	ISO 180/1A	[kJ/m <sup>2</sup> ]	90
Izod impact notched	+23 °C	ISO 180/1A	[kJ/m <sup>2</sup> ]	17
<b>THERMAL</b>				
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
<b>ELECTRICAL</b>				
Volume resistivity		IEC 93	[Ω·cm]	10 <sup>15</sup>
Surface resistivity		IEC 93	[Ω]	10 <sup>13</sup>
<b>BURNING BEHAVIOUR</b>				
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	: 240-270 °C
Recommended mould temperature	: 90-100 °C