



# DOMAMID® 6G15IK1 202 BK

(DOMAMID A1-506-V15-I1-B)

Polyamide 6, 15% glass fiber reinforced, low temperature impact modified, for injection moulding, black

TYPICAL PROPERTIES	CONDITION	STANDARD	UNIT	VALUE
<b>PRODUCT IDENTIFICATION</b>				
ISO 1043 abbreviation		ISO 1043		PA6-I-GF15
<b>PHYSICAL</b>				
Density		ISO 1183	[g/cm <sup>3</sup> ]	1,20
Mold shrinkage parallel	72 hrs, 23°C, 50% RH	ISO 2577	[%]	0,70 - 0,90
Mold shrinkage transverse	72 hrs, 23°C, 50% RH	ISO 2577	[%]	1,00 - 1,20
<b>RHEOLOGICAL</b>				
Melt Volume Rate (MVR)	275 °C - 5,0 kg	ISO 1133	[cm <sup>3</sup> /10 min]	35
Viscosity number	96% H2SO4	ISO 307	[ml/g]	145
<b>MECHANICAL</b>				
				dam / cond.*
Tensile modulus	1 mm/min	ISO 527	[MPa]	5200 / 3100
Tensile stress at break	5 mm/min	ISO 527	[MPa]	110 / 70
Tensile strain at break	5 mm/min	ISO 527	[%]	3,5 / 14
Flexural modulus	5 mm/min	ISO 178	[MPa]	4700 / 2500
Flexural strength	5 mm/min	ISO 178	[MPa]	175 / 100
Charpy unnotched	+23 °C	ISO 179/1eU	[kJ/m <sup>2</sup> ]	70 / 105
Charpy unnotched	-40 °C	ISO 179/1eU	[kJ/m <sup>2</sup> ]	60 / -
Charpy notched	+23 °C	ISO 179/1eA	[kJ/m <sup>2</sup> ]	14 / 27
Charpy notched	-40 °C	ISO 179/1eA	[kJ/m <sup>2</sup> ]	5 / -
<b>THERMAL</b>				
Melting point		ISO 11357-1	[°C]	221
Heat Deflection Temperature (HDT-B)	0,45 MPa	ISO 75	[°C]	215
Heat Deflection Temperature (HDT-A)	1,80 MPa	ISO 75	[°C]	190
VICAT softening temperature	50°C/h - 50N	ISO 306	[°C]	210
<b>ELECTRICAL</b>				
Volume resistivity		IEC 60093	[Ω·cm]	10 <sup>15</sup>
Surface resistivity		IEC 60093	[Ω]	10 <sup>13</sup>
<b>BURNING BEHAVIOUR</b>				
Burning rate (FMVSS)		FMVSS 302	[mm/min]	< 100

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 : 250-290 °C  
 Recommended mould temperature : 80-100 °C