

### DOMAMID® 66G43H1

(DOMAMID 66G43H)

Polyamide 66, 43% glass fiber reinforced, heat stabilized, for injection moulding

20.04.2016

TYPICAL PROPERTIES	CONDITION	STANDARD	UNIT	VALUE
<b>PRODUCT IDENTIFICATION</b>				
ISO 1043 abbreviation		ISO 1043		PA66-GF43
ISO 1874-1 designation		ISO 1874-1		PA 66,MH,14-140-GF43
<b>PHYSICAL</b>				
Density		ISO 1183	[g/cm <sup>3</sup> ]	1,50
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	[%]	0,5 ÷ 0,7
<b>RHEOLOGICAL</b>				
Viscosity number	96% H2SO4	ISO 307	[ml/g]	145
<b>MECHANICAL</b>				
Tensile modulus	1 mm/min	ISO 527	[MPa]	13500
Tensile stress at break	5 mm/min	ISO 527	[MPa]	200
Tensile strain at break	5 mm/min	ISO 527	[%]	2,5
Charpy unnotched	+23 °C	ISO 179/1eU	[kJ/m <sup>2</sup> ]	85
Charpy notched	+23 °C	ISO 179/1eA	[kJ/m <sup>2</sup> ]	15,5
Izod impact unnotched	+23 °C	ISO 180/1U	[kJ/m <sup>2</sup> ]	80
Izod impact notched	+23 °C	ISO 180/1A	[kJ/m <sup>2</sup> ]	14,5
<b>THERMAL</b>				
Melting point	DSC	ISO 11357-1	[°C]	262
Heat Deflection Temperature (HDT-B)	0,45 MPa	ISO 75	[°C]	255
Heat Deflection Temperature (HDT-A)	1,80 MPa	ISO 75	[°C]	250
VICAT softening temperature	50°C/h - 50N	ISO 306	[°C]	255
<b>ELECTRICAL</b>				
Volume resistivity		IEC 60093	[Ω·cm]	10 <sup>15</sup>
Surface resistivity		IEC 60093	[Ω]	10 <sup>13</sup>
Comparative Tracking Index (CTI)	Solution A	IEC 60112	[V]	500
<b>BURNING BEHAVIOUR</b>				
Flammability	0,8 mm	UL 94	[Class]	HB
Glow Wire Flammability Index (GWFI)	1 - 3 mm	IEC 60695-2-12	[°C]	650
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 : 75-85°C / 2-4h (with dew point of dried air < -30 °C)  
 Recommended melt temperature : 270-290 °C  
 Recommended mould temperature : 90-110 °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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