

DOMAMID® 66V0M

Polyamide 66, flame retardant, halogen and phosphorous free, for injection moulding.

13.03.2014

TYPICAL PROPERTIES	CONDITION	STANDARD	UNIT	VALUE
PRODUCT IDENTIFICATION				
ISO 1043 abbreviation		ISO 1043		PA66 FR(30)
PHYSICAL				
Density		ISO 1183	[g/cm ³]	1,18
Mold shrinkage parallel	72 hrs, 23°C, 50% RH	ISO 2577	[%]	1.1 ÷ 1,3
Mold shrinkage transverse	72 hrs, 23°C, 50% RH	ISO 2577	[%]	1.1 ÷ 1,3
MECHANICAL				
				dam / cond.*
Tensile modulus	1 mm/min	ISO 527	[MPa]	3700 / 1700
Tensile strain at break	50 mm/min	ISO 527	[%]	15 / >50
Tensile stress at yield	50 mm/min	ISO 527	[MPa]	85 / 50
Flexural modulus	2 mm/min	ISO 178	[MPa]	3400 / 1600
Flexural strength	2 mm/min	ISO 178	[MPa]	125 / 60
Charpy unnotched	+23 °C	ISO 179/1eU	[kJ/m ²]	75 / NB
Charpy notched	+23 °C	ISO 179/1eA	[kJ/m ²]	3,5 / 8,5
Izod impact unnotched	+23 °C	ISO 180/1A	[kJ/m ²]	65 / 125
Izod impact notched	+23 °C	ISO 180/1A	[kJ/m ²]	3,5 / 8
THERMAL				
Melting point	DSC	ISO 11357-1	[°C]	263
Heat Deflection Temperature (HDT-B)	0,45 MPa	ISO 75	[°C]	210
Heat Deflection Temperature (HDT-A)	1,80 MPa	ISO 75	[°C]	80
VICAT softening temperature	50°C/h - 50N	ISO 306	[°C]	240
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]	600
BURNING BEHAVIOUR				
Flammability	0,8 mm	UL 94	[Class]	V0
Flammability	1,5 mm	UL 94	[Class]	V0
Glow Wire Flammability Index (GWFI)	1 - 3 mm	IEC 60695-2-12	[°C]	960
Glow Wire Ignition Temperature (GWIT)	1 - 3 mm	IEC 60695-2-13	[°C]	750
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

*: conditioned according to ISO 1110

PROCESSING CONDITIONS:

Drying temperature/time : 75-85°C / 2-4h
 Recommended melt temperature : 260-290 °C
 Recommended mould temperature : 60-80 °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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