

DOMAMID® 66

(DOMAMID 66SN)

Polyamide 66, for injection moulding

11.03.2016

TYPICAL PROPERTIES	CONDITION	STANDARD	UNIT	VALUE
PRODUCT IDENTIFICATION				
ISO 1043 abbreviation		ISO 1043		PA66
ISO 1874-1 designation		ISO 1874-1		PA66,M,14-030
PHYSICAL				
Density		ISO 1183	[g/cm ³]	1,14
Mold shrinkage parallel	72 hrs, 23°C, 50% RH	ISO 2577	[%]	1,0 ÷ 1,2
Mold shrinkage transverse	72 hrs, 23°C, 50% RH	ISO 2577	[%]	1,2 ÷ 1,4
MECHANICAL				
				dam / cond.*
Tensile modulus	1 mm/min	ISO 527	[MPa]	3200 / 1200
Tensile strain at break	50 mm/min	ISO 527	[%]	35 / >50
Tensile stress at yield	50 mm/min	ISO 527	[MPa]	85 / 55
Flexural modulus	2 mm/min	ISO 178	[MPa]	2800 / -
Flexural strength	2 mm/min	ISO 178	[MPa]	110 / -
Charpy unnotched	+23 °C	ISO 179/1eU	[kJ/m ²]	NB / NB
Charpy unnotched	-30°C	ISO 179/1eU	[kJ/m ²]	NB / NB
Charpy notched	+23 °C	ISO 179/1eA	[kJ/m ²]	4,5 / 14
Izod impact unnotched	+23 °C	ISO 180/1U	[kJ/m ²]	NB / NB
Izod impact notched	+23 °C	ISO 180/1A	[kJ/m ²]	4,5 / 13
Hardness Rockwell		ISO 2039/2	[ScaleR]	121
THERMAL				
Melting point	DSC	ISO 11357-1	[°C]	262
Heat Deflection Temperature (HDT-B)	0,45 MPa	ISO 75	[°C]	215
Heat Deflection Temperature (HDT-A)	1,80 MPa	ISO 75	[°C]	70
VICAT softening temperature	50°C/h - 50N	ISO 306	[°C]	245
ELECTRICAL				
Volume resistivity		IEC 60093	[Ω·cm]	10 ¹⁵
Surface resistivity		IEC 60093	[Ω]	10 ¹³
Comparative Tracking Index (CTI)	Solution A	IEC 60112	[V]	600
BURNING BEHAVIOUR				
Flammability	0,8 mm	UL 94	[Class]	V-2
Glow Wire Flammability Index (GWFI)	1 - 3 mm	IEC 60695-2-12	[°C]	750
Glow Wire Ignition Temperature (GWIT)	1 - 3 mm	IEC 60695-2-13	[°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

*: 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 : 270-290 °C
 Recommended mould temperature : 40-80 °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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