

DOMAMID[®] 612

(DOMAMID 6ST2)

Polyamide 6, good impact resistance, for injection moulding.

				20.04.2016
TYPICAL PROPERTIES	CONDITION	STANDARD	UNIT	VALUE
PRODUCT IDENTIFICATION				
ISO 1043 abbreviation		ISO 1043		PA6-I
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PHYSICAL Density		ISO 1183	[g/cm ³]	1,08
Mold shrinkage parallel	72 hrs, 23°C, 50% RH	ISO 1183 ISO 2577	[%]	1,00
Mold shrinkage transverse	72 hrs, 23°C, 50% RH	ISO 2577 ISO 2577	[%]	1,2 - 1,4 1,5 - 1,7
Fiold Similkage transverse	72 m3, 25 C, 50 % Km	150 2577	[/0]	1,5 1,7
RHEOLOGICAL				
Viscosity number	96% H2SO4	ISO 307	[ml/g]	145
MECHANICAL				dam / cond.*
Tensile modulus	1 mm/min	ISO 527	[MPa]	2400 / 900
Tensile strain at break	50 mm/min	ISO 527	[%]	>50 / >50
Tensile stress at yield	50 mm/min	ISO 527	[MPa]	65 / 35
Flexural modulus	2 mm/min	ISO 178	[MPa]	2100 / 800
Flexural strength	2 mm/min	ISO 178	[MPa]	85 / 30
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]	35 / 95
Izod impact unnotched	+23 °C	ISO 180/1U	[kJ/m ²]	NB / NB
Izod impact notched	+23 °C	ISO 180/1A	[kJ/m ²]	30 / 90
Hardness Rockwell	120 0	ISO 2039/2	[ScaleR]	105 / -
		100 2000,2	[0001011]	2007
THERMAL				
Melting point	DSC	ISO 11357-1	[°C]	221
Heat Deflection Temperature (HDT-B)	0,45 MPa	ISO 75	[°C]	145
Heat Deflection Temperature (HDT-A)	1,80 MPa	ISO 75	[°C]	55
VICAT softening temperature	50°C/h - 50N	ISO 306	[°C]	180
ELECTRICAL				
Volume resistivity		IEC 60093	[Ω·cm]	1015
Surface resistivity		IEC 60093	[Ω]	1013
BURNING BEHAVIOUR				
Flammability	0,8 mm	UL 94	[Class]	HB
Burning rate (FMVSS)	-,	FMVSS 302	[mm/min]	< 100
			r]	. 200

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	: 240-260 °C
Recommended mould temperature	: 60-90 °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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