

**PA6 (POLYAMIDE) CAST  
GSOMO****MATERIAL DATA SHEET**

PROPERTIES	Test methods	Units	VALUES
Colour	-	-	black
Density	ISO 1183-1	g/cm <sup>3</sup>	1.15
Water absorption	ISO 62	%	2.5
<b>Thermal Properties</b>			
Melting temperature	ISO 11357-3	°C	216
Thermal capacity	DIN 52612	kJ / (kg*K)	1.70
Thermal conductivity at 23°C	DIN 52612-1	W/(K.m)	0.25
Coefficient of linear thermal expansion:			
- average value between 23 and 60°C	-	m/(m.K)	80 x 10 <sup>-6</sup>
- average value between 23 and 100°C	-	m/(m.K)	90 x 10 <sup>-6</sup>
Max. allowable service temperature in air:			
- for short periods	-	°C	170
- continuously : for min. 5,000	-	°C	110
Flammability (3 / 6 mm thickness)	UL 94	-	HB / HB
Min. service temperature	-	°C	-40
<b>Mechanical Properties at 23°C</b>			
Tension test			
- tensile stress at yield	ISO 527	MPa	82
- elongation at break	ISO 527	%	35
- tensile modulus of elasticity	ISO 527	MPa	3500
Notched impact strength	ISO 179	kJ/m <sup>2</sup>	2.5
Shore hardness	ISO 868	D	83

Note: 1 g/cm<sup>3</sup> = 1,000 kg/m<sup>3</sup> ; 1 MPa = 1 N/mm<sup>2</sup> ; 1 kV/mm = 1 MV/m. NA: not applicable

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