

**Polyamide 66**

**TECHNICAL DATA SHEET**

**Material Information:** Unreinforced polyamide 66, externally and internally lubricated for injection moulding and extrusion applications where fast cycles are required.

**Notes:** Eplamid 66 offers all primary properties of unreinforced PA66 used in all sectors of industry, good balance of thermal and mechanical properties, especially for thin wall and fast cycle applications.  
This material is available in natural and colors on request.

TESTS	TEST METHOD	UNIT	VALUES	
			DAM	CONDITIONED

**PHYSICAL TESTS**

DENSITY (23 °C)	ISO 1183	g/cm <sup>3</sup>	1,14	
ASH CONTENT	ISO 3451-4	%		
DETERMINATION OF WATER CONTENT	ISO 15512	%	0,1	
MOLD SHRINKAGE - PARALLEL / NORMAL (3 mm)	ISO 294-4	%	1,4/1,6	

**MECHANICAL TESTS**

TENSILE MODULUS (1 mm/min / 23 °C)	ISO 527-2	N/mm <sup>2</sup>	3200	1000
TENSILE STRESS AT BREAK (50 mm/min / 23 °C)	ISO 527-2	N/mm <sup>2</sup>	85	45
TENSILE STRAIN AT BREAK (50 mm/min / 23 °C)	ISO 527-2	%	10	15
FLEXURAL MODULUS (2 mm/min / 23 °C)	ISO 178	N/mm <sup>2</sup>	2900	900
FLEXURAL STRENGTH (2 mm/min / 23 °C)	ISO 178	N/mm <sup>2</sup>	95	50
NOTCHED IZOD IMPACT (23 °C)	ISO 180/1A	kJ/m <sup>2</sup>	6	7
UNNOTCHED IZOD IMPACT (23 °C)	ISO 180/1U	kJ/m <sup>2</sup>	No break	No break
NOTCHED CHARPY IMPACT (23 °C)	ISO 179/1eA	kJ/m <sup>2</sup>	6	7
UNNOTCHED CHARPY IMPACT (23 °C)	ISO 179/1eU	kJ/m <sup>2</sup>	No break	No break

**THERMAL TESTS**

MELTING POINT	ISO 3146	°C	260	
HDT/B (120 °C/h - 0,45 Mpa)	ISO 75-2/B	°C	205	
HDT/A (120 °C/h - 1,8 Mpa)	ISO 75-2/A	°C	66	

**FLAMMABILITY AND ELECTRICAL PROPERTIES**

FLAMMABILITY CLASSIFICATION (0,4 mm) - UL 94	EN 60695-11-10	-	V2	
COMPARATIVE TRACKING INDEX - CTI (SOLUTION A)	EN 60112	V	600	
SURFACE RESISTIVITY	ASTM D257	Ω/sq	1,00E+14	
BALL PRESSURE TEST (125 ± 2 °C)	EN 60695-10-2	-	<2 mm	

**TEST CONDITIONS**

Laboratory conditions are 23 ±2°C and 45-55 % RH.

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