

Polyamide 66

TECHNICAL DATA SHEET

Material Information: Unreinforced polyamide 66, externally lubricated for injection moulding.

Notes: Eplamid 66 offers all of primary properties of unreinforced polyamide 66 in all sectors of industry, good balance of thermal and mechanical properties.

This material is available in natural and colours on request.

TESTS	TEST METHOD	UNIT	VALUES	
			DAM	CONDITIONED

PHYSICAL TESTS

DENSITY (23 °C)	ISO 1183	g/cm ³	1,14	
ASH CONTENT	ISO 3451-4	%		
DETERMINATION OF WATER CONTENT	ISO 15512	%	0,1	
MOLD SHRINKAGE - PARALLEL / NORMAL (3 mm)	ISO 294-4	%	1,3/1,7	

MECHANICAL TESTS

TENSILE MODULUS (1 mm/min / 23 °C)	ISO 527-2	N/mm ²	2900	1100
TENSILE STRESS AT BREAK (50 mm/min / 23 °C)	ISO 527-2	N/mm ²	84	40
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 ²	3000	2100
FLEXURAL STRENGTH (2 mm/min / 23 °C)	ISO 178	N/mm ²	98	56
NOTCHED IZOD IMPACT (23 °C)	ISO 180/1A	kJ/m ²	5	6
UNNOTCHED IZOD IMPACT (23 °C)	ISO 180/1U	kJ/m ²	No break	No break
NOTCHED CHARPY IMPACT (23 °C)	ISO 179/1eA	kJ/m ²	4	5
UNNOTCHED CHARPY IMPACT (23 °C)	ISO 179/1eU	kJ/m ²	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	73	

FLAMMABILITY AND ELECTRICAL PROPERTIES

FLAMMABILITY CLASSIFICATION (3,00 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	

TEST CONDITIONS

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

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