

Polyamide 66

TECHNICAL DATA SHEET

Material Information: Polyamide 66, reinforced with 30% of glass fiber, heat stabilized, lubricated for injection moulding.

Notes: Eplamid 66 glass fiber reinforced compounds are used in all sectors of industry, offering a 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	1,36	
ASH CONTENT	ISO 3451-4	%	30	
DETERMINATION OF WATER CONTENT	ISO 15512	%	0,2	
MOLD SHRINKAGE - PARALLEL / NORMAL (3 mm)	ISO 294-4	%	0,4/0,8	

MECHANICAL TESTS

TENSILE MODULUS (1 mm/min / 23 °C)	ISO 527-2	N/mm ²	10500	8500
TENSILE STRESS AT BREAK (5 mm/min / 23 °C)	ISO 527-2	N/mm ²	185	135
TENSILE STRAIN AT BREAK (5 mm/min / 23 °C)	ISO 527-2	%	3,5	6
FLEXURAL MODULUS (2 mm/min / 23 °C)	ISO 178	N/mm ²	9500	7000
FLEXURAL STRENGTH (2 mm/min / 23 °C)	ISO 178	N/mm ²	240	185
NOTCHED IZOD IMPACT (23 °C)	ISO 180/1A	kJ/m ²	13	15
UNNOTCHED IZOD IMPACT (23 °C)	ISO 180/1U	kJ/m ²	80	90
NOTCHED CHARPY IMPACT (23 °C)	ISO 179/1eA	kJ/m ²	14	16
UNNOTCHED CHARPY IMPACT (23 °C)	ISO 179/1eU	kJ/m ²	85	95

THERMAL TESTS

MELTING POINT	ISO 3146	°C	260	
HDT/B (120 °C/h - 0,45 Mpa)	ISO 75-2/B	°C	255	
HDT/A (120 °C/h - 1,8 Mpa)	ISO 75-2/A	°C	250	

FLAMMABILITY AND ELECTRICAL PROPERTIES

FLAMMABILITY CLASSIFICATION (0,8 mm) - UL 94	EN 60695-11-10	-	HB	
COMPARATIVE TRACKING INDEX - CTI (SOLUTION A)	EN 60112	V	500	
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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