

Polyamide 6

TECHNICAL DATA SHEET

Material Information: Polyamide 6, reinforced with 30% of glass fiber, heat stabilized, lubricated for injection moulding.

Notes: Eplamid 6 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	1,35	
ASH CONTENT	ISO 3451-4	%	30	
DETERMINATION OF WATER CONTENT	ISO 15512	%	0,1	
MOLD SHRINKAGE - PARALLEL / NORMAL (3 mm)	ISO 294-4	%	0,4/0,7	

MECHANICAL TESTS

TENSILE MODULUS (1 mm/min / 23 °C)	ISO 527-2	N/mm ²	10000	8000
TENSILE STRESS AT BREAK (5 mm/min / 23 °C)	ISO 527-2	N/mm ²	170	110
TENSILE STRAIN AT BREAK (5 mm/min / 23 °C)	ISO 527-2	%	3	6
FLEXURAL MODULUS (2 mm/min / 23 °C)	ISO 178	N/mm ²	8800	6000
FLEXURAL STRENGTH (2 mm/min / 23 °C)	ISO 178	N/mm ²	250	170
NOTCHED IZOD IMPACT (23 °C)	ISO 180/1A	kJ/m ²	16	18
UNNOTCHED IZOD IMPACT (23 °C)	ISO 180/1U	kJ/m ²	95	105
NOTCHED CHARPY IMPACT (23 °C)	ISO 179/1eA	kJ/m ²	17	19
UNNOTCHED CHARPY IMPACT (23 °C)	ISO 179/1eU	kJ/m ²	100	110

THERMAL TESTS

MELTING POINT	ISO 3146	°C	220	
HDT/B (120 °C/h - 0,45 Mpa)	ISO 75-2/B	°C	215	
HDT/A (120 °C/h - 1,8 Mpa)	ISO 75-2/A	°C	205	

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	550	
SURFACE RESISTIVITY	ASTM D257	Ω/sq	1,00E+13	

TEST CONDITIONS

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

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