



Polybutylene Terephthalate

TECHNICAL DATA SHEET

Material Information: EPIMIX PBT, heat stabilized, lubricated for injection moulding.

Notes: EPIMIX PBT is used in all sectors of industry, has and excellent surface finish, low warpage and all around excellent mechanical properties.

This material is available in natural and colours on request.

TESTS	TEST METHOD	UNIT	VALUES DAM
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PHYSICAL TESTS

DENSITY (23 °C)	ISO 1183	g/cm ³	1,31
ASH CONTENT	ISO 3451-4	%	
MELT FLOW RATE (250°C/5Kg)	ISO 1133-1/2	g/10min	80
MOLD SHRINKAGE - PARALLEL / NORMAL (3 mm)	ISO 294-4	%	1,8/2,0

MECHANICAL TESTS

TENSILE MODULUS (1 mm/min / 23 °C)	ISO 527-2	N/mm ²	2900
TENSILE STRESS AT BREAK (50 mm/min / 23 °C)	ISO 527-2	N/mm ²	55
TENSILE STRAIN AT BREAK (50 mm/min / 23 °C)	ISO 527-2	%	60
FLEXURAL MODULUS (2 mm/min / 23 °C)	ISO 178	N/mm ²	2500
FLEXURAL STRENGTH (2 mm/min / 23 °C)	ISO 178	N/mm ²	80
NOTCHED IZOD IMPACT (23 °C)	ISO 180/1A	kJ/m ²	10
UNNOTCHED IZOD IMPACT (23 °C)	ISO 180/1U	kJ/m ²	150
NOTCHED CHARPY IMPACT (23 °C)	ISO 179/1eA	kJ/m ²	10
UNNOTCHED CHARPY IMPACT (23 °C)	ISO 179/1eU	kJ/m ²	220

THERMAL TESTS

MELTING POINT	ISO 3146	°C	225
HDT/B (120 °C/h - 0,45 Mpa)	ISO 75-2/B	°C	160
HDT/A (120 °C/h - 1,8 Mpa)	ISO 75-2/A	°C	60

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	600
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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