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EPIMIX PBT GFR 30 NC Q1D001

Polybutylene Terephthalate

TECHNICAL DATA SHEET

Material Information: EPIMIX PBT, 30% Glass fiber reinforced, heat stabilized and lubricated for injection moulding.

Notes: EPIMIX PBT glass fiber reinforced grades are 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
PHYSICAL TESTS			
DENSITY (23 °C)	ISO 1183	g/cm^3	1,51
ASH CONTENT	ISO 3451-4	%	30
MOLD SHRINKAGE - PARALLEL / NORMAL (3 mm)	ISO 294-4	%	0,3/1,0
MECHANICAL TESTS			
TENSILE MODULUS (1 mm/min / 23 °C)	ISO 527-2	N/mm^2	10000
TENSILE STRESS AT BREAK (5 mm/min / 23 °C)	ISO 527-2	N/mm^2	135
TENSILE STRAIN AT BREAK (5 mm/min / 23 °C)	ISO 527-2	%	3,0
FLEXURAL MODULUS (2 mm/min / 23 °C)	ISO 178	N/mm^2	9200
FLEXURAL STRENGTH (2 mm/min / 23 °C)	ISO 178	N/mm^2	200
NOTCHED IZOD IMPACT (23 °C)	ISO 180/1A	kJ/m^2	10
UNNOTCHED IZOD IMPACT (23 °C)	ISO 180/1U	kJ/m^2	60
NOTCHED CHARPY IMPACT (23 °C)	ISO 179/1eA	kJ/m^2	11
UNNOTCHED CHARPY IMPACT (23 °C)	ISO 179/1eU	kJ/m^2	65
THERMAL TESTS			
MELTING POINT	ISO 3146	°C	225
HDT/B (120 °C/h - 0,45 Mpa)	ISO 75-2/B	°C	220
HDT/A (120 °C/h - 1,8 Mpa)	ISO 75-2/A	°C	210
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	350
SURFACE RESISTIVITY	ASTM D257	Ω/sq	1,00E+13

TEST CONDITIONS

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