



creative thermoplastic compounds

PB300G33/310G6

Release Date: 01/11/2012

30%/33% Glass Fiber Reinforced, Heat Stabilized Polyamide 6 for Injection Moulding applications.

ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/cm ³	ISO-1183	1.37
WATER ABSORPTION (SATURATION)	%	ISO-62	6.6
MOISTURE ABSORPTION 23° C, 50% RH (SATURATION)	%	ISO-62	2.1
MOULD SHRINKAGE	%	ISO-2577	0.3-0.7
MECHANICAL PROPERTIES	UNIT	TEST METHOD	VALUES
TENSILE YIELD STRENGTH	MPa	ISO-527	180
TENSILE MODULUS	MPa	ISO-527	9000
STRAIN @ BREAK	%	ISO-527	3.5
FLEXURAL STRENGTH	MPa	ISO-178	250
FLEXURAL MODULUS	MPa	ISO-178	8500
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m ²	ISO-180	12
NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m ²	ISO-179	17
NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m ²	ISO-179	12
UN NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m ²	ISO-179	90
UN NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m ²	ISO-179	80
ROCKWELL HARDNESS		R scale	122
THERMAL PROPERTIES	UNIT	TEST METHOD	VALUES
HDT AT LOAD 1.8 Mpa	°C	ISO-75	205
HDT AT LOAD 0.45 Mpa	°C	ISO-75	220
UL FLAMMABILITY		UL-94 3mm	H.B.
MELTING POINT	°C	ISO-11357	218
MAX TEMP CONTINUOUS USE	°C		110
MAX TEMP SHORT PEAKS OPERATION	°C		200
ELECTRICAL PROPERTIES	UNIT	TEST METHOD	VALUES
SURFACE RESISTANCE	Ohm	IEC 60093	10 ¹²
VOLUME RESISTANCE	Ohm x m	IEC 60093	10 ¹⁵
DIELECTRIC STRENGTH	kV/mm	IEC 60250	80
DIELECTRIC CONSTANT AT 1MHZ	kV/mm	IEC 60250	3.8

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