



creative thermoplastic compounds

PB302G8

Release Date: 02/11/2012

40% Glass Fiber Reinforced, Heat Stabilized Polyamide 6 for Injection Moulding applications.
ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/cm ³	ISO-1183	1.45
WATER ABSORPTION (SATURATION)	%	ISO-62	5
MOISTURE ABSORPTION 23° C, 50% RH (SATURATION)	%	ISO-62	1.5
MOULD SHRINKAGE	%	ISO-2577	0.2-0.5
MECHANICAL PROPERTIES	UNIT	TEST METHOD	VALUES
TENSILE YIELD STRENGTH	MPa	ISO-527	200
TENSILE MODULUS	MPa	ISO-527	14000
STRAIN @ BREAK	%	ISO-527	3
FLEXURAL STRENGTH	MPa	ISO-178	290
FLEXURAL MODULUS	MPa	ISO-178	13500
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m ²	ISO-180	20
ROCKWELL HARDNESS		R scale	124
THERMAL PROPERTIES	UNIT	TEST METHOD	VALUES
HDT AT LOAD 1.8 Mpa	°C	ISO-75	215
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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