



creative thermoplastic compounds

PB320G3

Release Date: 18/12/2012

15% Glass Fiber Reinforced Flame Retardant Polyamide 6 for Injection Moulding applications.
ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/cm ³	ISO-1183	1.3
WATER ABSORPTION (SATURATION)	%	ISO-62	5
MOISTURE ABSORPTION 23° C, 50% RH (SATURATION)	%	ISO-62	1.6
MOULD SHRINKAGE	%	ISO-2577	0.4-0.7
MECHANICAL PROPERTIES	UNIT	TEST METHOD	VALUES
TENSILE YIELD STRENGTH	MPa	ISO-527	110
TENSILE MODULUS	MPa	ISO-527	5900
STRAIN @ BREAK	%	ISO-527	3
FLEXURAL STRENGTH	MPa	ISO-178	140
FLEXURAL MODULUS	MPa	ISO-178	4800
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m ²	ISO-180	10
ROCKWELL HARDNESS		R scale	110
THERMAL PROPERTIES	UNIT	TEST METHOD	VALUES
HDT AT LOAD 1.8 Mpa	°C	ISO-75	190
HDT AT LOAD 0.45 Mpa	°C	ISO-75	215
G.W.F.I	°C	IEC 60695	960
UL FLAMMABILITY		UL-94 3mm	V-O
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 ¹⁰
VOLUME RESISTANCE	Ohm x m	IEC 60093	10 ¹²
DIELECTRIC STRENGTH	kV/mm	IEC 60250	65
DIELECTRIC CONSTANT AT 1MHZ	kV/mm	IEC 60250	4.3

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