



creative thermoplastic compounds

RA320G3

Release Date: 27/07/2003

15% Glass Fiber Reinforced Flame Retardant Polyamide 6.6 for Injection Moulding applications.
ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/cm ³	ISO-1183	1.23
WATER ABSORPTION (SATURATION)	%	ISO-62	7
MOISTURE ABSORPTION 23° C, 50% RH (SATURATION)	%	ISO-62	2.2
MOULD SHRINKAGE	%	ISO-2577	0.35-0.45
MECHANICAL PROPERTIES	UNIT	TEST METHOD	VALUES
TENSILE YIELD STRENGTH	MPa	ISO-527	105
STRAIN @ BREAK	%	ISO-527	3
FLEXURAL STRENGTH	MPa	ISO-178	180
FLEXURAL MODULUS	MPa	ISO-178	5000
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m ²	ISO-180	6
ROCKWELL HARDNESS		R scale	121
THERMAL PROPERTIES	UNIT	TEST METHOD	VALUES
HDT AT LOAD 1.8 Mpa	°C	ISO-75	250
HDT AT LOAD 0.45 Mpa	°C	ISO-75	350
UL FLAMMABILITY		UL-94 3mm	V-0
MELTING POINT	°C	ISO-11357	256
MAX TEMP CONTINUOUS USE	°C		100
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	70
DIELECTRIC CONSTANT AT 1MHZ	kV/mm	IEC 60250	3.8

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