



creative thermoplastic compounds

PA870G33

Release Date: 22/01/2013

33% Glass Fiber Reinforced , Impact Modified Polyamide 6.6 for Injection Moulding applications.

ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/cm ³	ISO-1183	1.33
WATER ABSORPTION (SATURATION)	%	ISO-62	4.5
MOISTURE ABSORPTION 23° C, 50% RH (SATURATION)	%	ISO-62	1.4
MOULD SHRINKAGE	%	ISO-2577	0.3-0.7
MECHANICAL PROPERTIES	UNIT	TEST METHOD	VALUES
TENSILE YIELD STRENGTH	MPa	ISO-527	140
STRAIN @ BREAK	%	ISO-527	4
FLEXURAL STRENGTH	MPa	ISO-178	170
FLEXURAL MODULUS	MPa	ISO-178	5500
NOTCHED IZOD IMPACT STRENGTH +23°C	KJ/m ²	ISO-180	20
ROCKWELL HARDNESS		R scale	121
THERMAL PROPERTIES	UNIT	TEST METHOD	VALUES
HDT AT LOAD 1.8 Mpa	°C	ISO-75	245
HDT AT LOAD 0.45 Mpa	°C	ISO-75	255
UL FLAMMABILITY		UL-94 3mm	H.B.
MELTING POINT	°C	ISO-11357	256
MAX TEMP CONTINUOUS USE	°C		80
MAX TEMP SHORT PEAKS OPERATION	°C		230
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	90
DIELECTRIC CONSTANT AT 1MHZ	kV/mm	IEC 60250	3.5

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