



creative thermoplastic compounds

RA303G6

Release Date: 22/01/2013

30% Glass Fiber Reinforced, Heat Stabilized and Hydrolysis Resistant Polyamide 6.6 for Injection Moulding applications.

ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/cm ³	ISO-1183	1.33-1.39
WATER ABSORPTION (SATURATION)	%	ISO-62	5.6
MOISTURE ABSORPTION 23° C, 50% RH (SATURATION)	%	ISO-62	1.7
MOULD SHRINKAGE	%	ISO-2577	0.3-0.4
MECHANICAL PROPERTIES	UNIT	TEST METHOD	VALUES
TENSILE YIELD STRENGTH	MPa	ISO-527	190
TENSILE MODULUS	MPa	ISO-527	8800
STRAIN @ BREAK	%	ISO-527	3
FLEXURAL STRENGTH	MPa	ISO-178	290
FLEXURAL MODULUS	MPa	ISO-178	8200
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m ²	ISO-180	12
NOTCHED IZOD IMPACT STRENGTH -30°C	Kj/m ²	ISO-180	11
NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m ²	ISO-179	13
NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m ²	ISO-179	11
UN NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m ²	ISO-179	80
UN NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m ²	ISO-179	70
ROCKWELL HARDNESS		R scale	122
THERMAL PROPERTIES	UNIT	TEST METHOD	VALUES
HDT AT LOAD 1.8 Mpa	°C	ISO-75	249
HDT AT LOAD 0.45 Mpa	°C	ISO-75	259
FLAMMABILITY	mm/min	FMVSS302	16
UL FLAMMABILITY		UL-94 3mm	H.B.
MELTING POINT	°C	ISO-11357	256
ELECTRICAL PROPERTIES	UNIT	TEST METHOD	VALUES
SURFACE RESISTANCE	Ohm	IEC 60093	10 ¹³
VOLUME RESISTANCE	Ohm x m	IEC 60093	10 ¹⁵
DIELECTRIC STRENGTH	kV/mm	IEC 60250	90
DIELECTRIC CONSTANT AT 1MHZ	kV/mm	IEC 60250	3.7

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