



creative thermoplastic compounds

PA840G13

Release Date: 22/01/2013

Impact Modified 13% Glass Fiber Reinforced, Heat Resistant Polyamide 6.6 for Injection Moulding applications.

ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/m ³	ISO-1183	1.21
WATER ABSORPTION (SATURATION)	%	ISO-62	6.5
MOISTURE ABSORPTION 23° C, 50% RH (SATURATION)	%	ISO-62	2
MOULD SHRINKAGE	%	ISO-2577	0.5-0.8
MECHANICAL PROPERTIES	UNIT	TEST METHOD	VALUES
TENSILE YIELD STRENGTH	MPa	ISO-527	115
TENSILE MODULUS	MPa	ISO-527	4500
STRAIN @ BREAK	%	ISO-527	4
FLEXURAL STRENGTH	MPa	ISO-178	120
FLEXURAL MODULUS	MPa	ISO-178	4000
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m ²	ISO-180	10
NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m ²	ISO-179	6
NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m ²	ISO-179	5
UN NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m ²	ISO-179	60
UN NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m ²	ISO-179	45
ROCKWELL HARDNESS		R scale	120
THERMAL PROPERTIES	UNIT	TEST METHOD	VALUES
HDT AT LOAD 1.8 Mpa	°C	ISO-75	240
HDT AT LOAD 0.45 Mpa	°C	ISO-75	256
FLAMMABILITY	mm/min	FMVSS302	25
UL FLAMMABILITY		UL-94 3mm	H.B.
MELTING POINT	°C	ISO-11357	256
MAX TEMP CONTINUOUS USE	°C		130
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	90
DIELECTRIC CONSTANT AT 1MHZ	kV/mm	IEC 60250	3.5

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