creative thermoplastic compounds

PA301G50

Release Date: 31/12/2012

Heat Stabilized, 50% Glass Fiber Reinforced Polyamide 6.6 for Injection Moulding applications.

ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/cm^3	ISO-1183	1.55
WATER ABSORPTION (SATURATION)	%	ISO-62	4
MOISTURE ABSORPTION 23° C, 50% RH (SATURATION)	%	ISO-62	1.2
MOULD SHRINKAGE	%	ISO-2577	0.1-0.5
MECHANICAL PROPERTIES	**UNIT**	**TEST METHOD**	**VALUES**
TENSILE YIELD STRENGTH	MPa	ISO-527	230
TENSILE MODULUS	MPa	ISO-527	16000
STRAIN @ BREAK	%	ISO-527	2.5
FLEXURAL STRENGTH	MPa	ISO-178	330
FLEXURAL MODULUS	MPa	ISO-178	15000
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m^2	ISO-180	15
NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m^2	ISO-179	17
UN NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m^2	ISO-179	90
ROCKWELL HARDNESS		R scale	122
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	255
G.W.F.I	°C	IEC 60695	750
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		240
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	3.8

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