creative thermoplastic compounds

PA301G6

Release Date: 31/12/2012

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

ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/cm^3	ISO-1183	1.34
WATER ABSORPTION (SATURATION)	%	ISO-62	6.5
MOISTURE ABSORPTION 23° C, 50% RH (SATURATION)	%	ISO-62	1.7
MOULD SHRINKAGE	%	ISO-2577	0.3-0.7
MECHANICAL PROPERTIES	**UNIT**	**TEST METHOD**	**VALUES**
TENSILE YIELD STRENGTH	MPa	ISO-527	190
TENSILE MODULUS	MPa	ISO-527	11000
STRAIN @ BREAK	%	ISO-527	3.5
FLEXURAL STRENGTH	MPa	ISO-178	280
FLEXURAL MODULUS	MPa	ISO-178	9000
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m^2	ISO-180	12
UN NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m^2	ISO-179	90
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	250
HDT AT LOAD 0.45 Mpa	°C	ISO-75	260
G.W.F.I	°C	IEC 60695	750
G.W.I.T.	°C	IEC 60695	725
FLAMMABILITY	mm/min	FMVSS302	12
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	3.5
CTI		IEC 60112	400

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