creative thermoplastic compounds

RA320G6/RA321G6

Release Date: 05/12/2012

30% Glass Fiber Reinforced, Flame Retardant Polyamide 6.6 for Injection Moulding applications.

ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/cm^3	ISO-1183	1.665
WATER ABSORPTION (SATURATION)	%	ISO-62	4.5
MOISTURE ABSORPTION 23° C, 50% RH (SATURATION)	%	ISO-62	1.5
MOULD SHRINKAGE	%	ISO-2577	0.3-0.4
MECHANICAL PROPERTIES	**UNIT**	**TEST METHOD**	**VALUES**
TENSILE YIELD STRENGTH	MPa	ISO-527	>140
STRAIN @ BREAK	%	ISO-527	2
FLEXURAL STRENGTH	MPa	ISO-178	>190
FLEXURAL MODULUS	MPa	ISO-178	>7500
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m^2	ISO-180	>9
THERMAL PROPERTIES	**UNIT**	**TEST METHOD**	**VALUES**
HDT AT LOAD 1.8 Mpa	°C	ISO-75	225
HDT AT LOAD 0.45 Mpa	°C	ISO-75	238
UL FLAMMABILITY		UL-94 3mm	V-0
MELTING POINT	°C	ISO-11357	256
MAX TEMP CONTINUOUS USE	°C		115
MAX TEMP SHORT PEAKS OPERATION	°C		>200
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	80
DIELECTRIC CONSTANT AT 1MHZ	kV/mm	IEC 60250	3.7

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