creative thermoplastic compounds

RA325G5

Release Date: 06/10/2009

25% Glass Fiber Reinforced, Self Extinguishing Halogen Free 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
MOISTURE ABSORPTION 23° C, 50% RH (SATURATION)	%	ISO-62	1.9
MOULD SHRINKAGE	%	ISO-2577	0.4
MECHANICAL PROPERTIES	**UNIT**	**TEST METHOD**	**VALUES**
TENSILE YIELD STRENGTH	MPa	ISO-527	120
TENSILE MODULUS	MPa	ISO-527	7100
STRAIN @ BREAK	%	ISO-527	3
FLEXURAL STRENGTH	MPa	ISO-178	200
FLEXURAL MODULUS	MPa	ISO-178	7600
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m^2	ISO-180	8.5
NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m^2	ISO-179	8.5
UN NOTCHED CHARPY IMPACT STRENGTH +23°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	250
G.W.F.I	°C	IEC 60695	960
G.W.I.T.	°C	IEC 60695	750
FLAMMABILITY	mm/min	FMVSS302	0
UL FLAMMABILITY		UL-94 1.6/3mm	V-0
MELTING POINT	°C	ISO-11357	256
MAX TEMP CONTINUOUS USE	°C		120
MAX TEMP SHORT PEAKS OPERATION	°C		240
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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