creative thermoplastic compounds

PB318G9

Release Date: 30/11/2012

45% Glass Fiber Reinforced Polyamide 6, UV Stabilized for Injection Molding applications.

ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/m^3	ISO-1183	1.42
WATER ABSORPTION (SATURATION)	%	ISO-62	4.9
MOULD SHRINKAGE	%	ISO-2577	0.15-0.4
MECHANICAL PROPERTIES	**UNIT**	**TEST METHOD**	**VALUES**
TENSILE YIELD STRENGTH	MPa	ISO-527	200
TENSILE MODULUS	MPa	ISO-527	14000
STRAIN @ BREAK	%	ISO-527	2.5
FLEXURAL STRENGTH	MPa	ISO-178	280
FLEXURAL MODULUS	MPa	ISO-178	13500
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m^2	ISO-180	18
THERMAL PROPERTIES	**UNIT**	**TEST METHOD**	**VALUES**
HDT AT LOAD 1.8 Mpa	°C	ISO-75	215
HDT AT LOAD 0.45 Mpa	°C	ISO-75	220
UL FLAMMABILITY		UL-94 3mm	H.B.
MELTING POINT	°C	ISO-11357	218
MAX TEMP CONTINUOUS USE	°C		110
MAX TEMP SHORT PEAKS OPERATION	°C		200
ELECTRICAL PROPERTIES	**UNIT**	**TEST METHOD**	**VALUES**
VOLUME RESISTANCE	Ohm x m	IEC 60093	10^12
DIELECTRIC STRENGTH	kV/mm	IEC 60250	65

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