creative thermoplastic compounds

PB310G6

Release Date: 13/07/2010

30% Glass Fiber Reinforced Polyamide 6, Heat Stabilized Polyamide 6 for Injection Moulding applications.

ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/cm^3	ISO-1183	1.37
WATER ABSORPTION (SATURATION)	%	ISO-62	6.6
MOISTURE ABSORPTION 23° C, 50% RH (SATURATION)	%	ISO-62	2.1
MOULD SHRINKAGE	%	ISO-2577	0.35
MECHANICAL PROPERTIES	**UNIT**	**TEST METHOD**	**VALUES**
TENSILE YIELD STRENGTH	MPa	ISO-527	175
STRAIN @ BREAK	%	ISO-527	3.5
FLEXURAL STRENGTH	MPa	ISO-178	300
FLEXURAL MODULUS	MPa	ISO-178	8500
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m^2	ISO-180	16
NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m^2	ISO-179	17
NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m^2	ISO-179	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	80
THERMAL PROPERTIES	**UNIT**	**TEST METHOD**	**VALUES**
HDT AT LOAD 1.8 Mpa	°C	ISO-75	190
HDT AT LOAD 0.45 Mpa	°C	ISO-75	210
UL FLAMMABILITY		UL-94 3mm	H.B.
MELTING POINT	°C	ISO-11357	218
ELECTRICAL PROPERTIES	**UNIT**	**TEST METHOD**	**VALUES**
VOLUME RESISTANCE	Ohm x m	IEC 60093	10^13
DIELECTRIC STRENGTH	kV/mm	IEC 60250	32

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