creative thermoplastic compounds

PF305G6

Release Date: 03/06/2012

30% Glass Fiber Reinforced, PBT for Injection Moulding applications.

ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/m^3	ISO-1183	1.5
WATER ABSORPTION (SATURATION)	%	ISO-62	0.5
MOISTURE ABSORPTION 23° C, 50% RH (SATURATION)	%	ISO-62	0.1
MOULD SHRINKAGE	%	ISO-2577	0.3
MFI	g/10min	ISO-1133 250/2.16	15
MECHANICAL PROPERTIES	**UNIT**	**TEST METHOD**	**VALUES**
TENSILE YIELD STRENGTH	MPa	ISO-527	130
TENSILE MODULUS	MPa	ISO-527	8100
STRAIN @ BREAK	%	ISO-527	3
FLEXURAL STRENGTH	MPa	ISO-178	180
FLEXURAL MODULUS	MPa	ISO-178	8600
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m^2	ISO-180	12
NOTCHED IZOD IMPACT STRENGTH -30°C	Kj/m^2	ISO-180	8.5
NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m^2	ISO-179	11.5
NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m^2	ISO-179	8.5
UN NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m^2	ISO-179	70
UN NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m^2	ISO-179	75
THERMAL PROPERTIES	**UNIT**	**TEST METHOD**	**VALUES**
HDT AT LOAD 1.8 Mpa	°C	ISO-75	206
HDT AT LOAD 0.45 Mpa	°C	ISO-75	219
FLAMMABILITY	mm/min	FMVSS302	15
UL FLAMMABILITY		UL-94 3mm	H.B.
MELTING POINT	°C	ISO-11357	225
MAX TEMP CONTINUOUS USE	°C		150
MAX TEMP SHORT PEAKS OPERATION	°C		200
ELECTRICAL PROPERTIES	**UNIT**	**TEST METHOD**	**VALUES**
VOLUME RESISTANCE	Ohm x m	IEC 60093	10^15
DIELECTRIC STRENGTH	kV/mm	IEC 60250	35