



creative thermoplastic compounds

PB340S6

Release Date: 18/12/2012

30% Glass Beads Reinforced, Polyamide 6 for Injection Moulding applications.

ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/cm ³	ISO-1183	1.35
WATER ABSORPTION (SATURATION)	%	ISO-62	5.8
MOISTURE ABSORPTION 23° C, 50% RH (SATURATION)	%	ISO-62	1.8
MOULD SHRINKAGE	%	ISO-2577	0.8-1.2
MECHANICAL PROPERTIES	UNIT	TEST METHOD	VALUES
TENSILE YIELD STRENGTH	MPa	ISO-527	70
TENSILE MODULUS	MPa	ISO-527	4000
STRAIN @ BREAK	%	ISO-527	3-10
FLEXURAL STRENGTH	MPa	ISO-178	120
FLEXURAL MODULUS	MPa	ISO-178	3600
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m ²	ISO-180	3.5
NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m ²	ISO-179	3.5
NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m ²	ISO-179	3
UN NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m ²	ISO-179	30
UN NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m ²	ISO-179	25
THERMAL PROPERTIES	UNIT	TEST METHOD	VALUES
HDT AT LOAD 1.8 Mpa	°C	ISO-75	90
HDT AT LOAD 0.45 Mpa	°C	ISO-75	190
UL FLAMMABILITY		UL-94 3mm	H.B.
MELTING POINT	°C	ISO-11357	218
MAX TEMP CONTINUOUS USE	°C		80
MAX TEMP SHORT PEAKS OPERATION	°C		180
ELECTRICAL PROPERTIES	UNIT	TEST METHOD	VALUES
SURFACE RESISTANCE	Ohm	IEC 60093	10 ¹⁵
VOLUME RESISTANCE	Ohm x m	IEC 60093	10 ¹²
DIELECTRIC STRENGTH	kV/mm	IEC 60250	80
DIELECTRIC CONSTANT AT 1MHZ	kV/mm	IEC 60250	3.8

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