



creative thermoplastic compounds

PB340S50

Release Date: 18/12/2012

50% Glass Beads Reinforced, Heat Stabilized Polyamide 6 for Injection Moulding applications.
ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/m ³	ISO-1183	1.42
WATER ABSORPTION (SATURATION)	%	ISO-62	5.8
MOULD SHRINKAGE	%	ISO-2577	0.8-1.2
MECHANICAL PROPERTIES	UNIT	TEST METHOD	VALUES
TENSILE YIELD STRENGTH	MPa	ISO-527	65
TENSILE MODULUS	MPa	ISO-527	4500
STRAIN @ BREAK	%	ISO-527	3-10
FLEXURAL STRENGTH	MPa	ISO-178	120
FLEXURAL MODULUS	MPa	ISO-178	4000
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m ²	ISO-180	4.5
NOTCHED IZOD IMPACT STRENGTH -30°C	Kj/m ²	ISO-180	4
NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m ²	ISO-179	4.5
NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m ²	ISO-179	4
UN NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m ²	ISO-179	45
UN NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m ²	ISO-179	40
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
VOLUME RESISTANCE	Ohm x m	IEC 60093	10 ¹⁵
DIELECTRIC STRENGTH	kV/mm	IEC 60250	80

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