



creative thermoplastic compounds

PB825G5

Release Date: 30/11/2012

25% Glass Fiber Reinforced, Impact Modified Polyamide 6 for Injection Moulding applications.
ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/cm ³	ISO-1183	1.27
WATER ABSORPTION (SATURATION)	%	ISO-62	6.2
MOISTURE ABSORPTION 23° C, 50% RH (SATURATION)	%	ISO-62	2
MOULD SHRINKAGE	%	ISO-2577	0.3-0.6
MECHANICAL PROPERTIES	UNIT	TEST METHOD	VALUES
TENSILE YIELD STRENGTH	MPa	ISO-527	120
TENSILE MODULUS	MPa	ISO-527	6500
STRAIN @ BREAK	%	ISO-527	3
FLEXURAL STRENGTH	MPa	ISO-178	150
FLEXURAL MODULUS	MPa	ISO-178	6000
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m ²	ISO-180	20
ROCKWELL HARDNESS		R scale	119
THERMAL PROPERTIES	UNIT	TEST METHOD	VALUES
HDT AT LOAD 1.8 Mpa	°C	ISO-75	195
HDT AT LOAD 0.45 Mpa	°C	ISO-75	210
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		200
ELECTRICAL PROPERTIES	UNIT	TEST METHOD	VALUES
SURFACE RESISTANCE	Ohm	IEC 60093	10 ¹⁰
VOLUME RESISTANCE	Ohm x m	IEC 60093	10 ¹²
DIELECTRIC STRENGTH	kV/mm	IEC 60250	70
DIELECTRIC CONSTANT AT 1MHZ	kV/mm	IEC 60250	6.6

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