



creative thermoplastic compounds

PB826G3

Release Date: 30/11/2012

15% Glass Fiber Reinforced, Impact Modified and UV Stabilized Polyamide 6 for Injection Moulding applications.

ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/m ³	ISO-1183	1.18
WATER ABSORPTION (SATURATION)	%	ISO-62	7.3
MOISTURE ABSORPTION 23° C, 50% RH (SATURATION)	%	ISO-62	2.5
MOULD SHRINKAGE	%	ISO-2577	0.4-0.7
MECHANICAL PROPERTIES	UNIT	TEST METHOD	VALUES
TENSILE YIELD STRENGTH	MPa	ISO-527	100
TENSILE MODULUS	MPa	ISO-527	4900
STRAIN @ BREAK	%	ISO-527	3.5
FLEXURAL STRENGTH	MPa	ISO-178	140
FLEXURAL MODULUS	MPa	ISO-178	4500
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m ²	ISO-180	15
NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m ²	ISO-179	20
NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m ²	ISO-179	8
UN NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m ²	ISO-179	72
UN NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m ²	ISO-179	70
ROCKWELL HARDNESS		R scale	85
THERMAL PROPERTIES	UNIT	TEST METHOD	VALUES
HDT AT LOAD 1.8 Mpa	°C	ISO-75	170
HDT AT LOAD 0.45 Mpa	°C	ISO-75	210
VICAT SOFTENING POINT	°C	ISO-306	215
FLAMMABILITY	mm/min	FMVSS302	20
UL FLAMMABILITY		UL-94 3mm	H.B.
MELTING POINT	°C	ISO-11357	218
MAX TEMP CONTINUOUS USE	°C		110
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 ¹⁰
DIELECTRIC STRENGTH	kV/mm	IEC 60250	80

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