



creative thermoplastic compounds

PB840/841

Release Date: 05/12/2012

Impact Modified Polyamide 6 for Injection Moulding applications.

ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/cm ³	ISO-1183	1.06-1.1
WATER ABSORPTION (SATURATION)	%	ISO-62	8
MOISTURE ABSORPTION 23° C, 50% RH (SATURATION)	%	ISO-62	2.5
MOULD SHRINKAGE	%	ISO-2577	1.2-1.6
MECHANICAL PROPERTIES	UNIT	TEST METHOD	VALUES
TENSILE YIELD STRENGTH	MPa	ISO-527	60
TENSILE MODULUS	MPa	ISO-527	2100
STRAIN @ BREAK	%	ISO-527	>50
FLEXURAL STRENGTH	MPa	ISO-178	85
FLEXURAL MODULUS	MPa	ISO-178	2200
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m ²	ISO-180	40
NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m ²	ISO-179	43
ROCKWELL HARDNESS		R scale	114
THERMAL PROPERTIES	UNIT	TEST METHOD	VALUES
HDT AT LOAD 1.8 Mpa	°C	ISO-75	65
HDT AT LOAD 0.45 Mpa	°C	ISO-75	170
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 ¹³
VOLUME RESISTANCE	Ohm x m	IEC 60093	10 ¹⁵
DIELECTRIC STRENGTH	kV/mm	IEC 60250	100
DIELECTRIC CONSTANT AT 1MHZ	kV/mm	IEC 60250	3.5

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