



creative thermoplastic compounds

PA810

Release Date: 08/01/2013

Impact Modified Polyamide 6.6 for Injection Moulding applications.

ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/cm ³	ISO-1183	1.08-1.1
WATER ABSORPTION (SATURATION)	%	ISO-62	5.5
MOISTURE ABSORPTION 23° C, 50% RH (SATURATION)	%	ISO-62	2
MOULD SHRINKAGE	%	ISO-2577	1.4-1.8
MECHANICAL PROPERTIES	UNIT	TEST METHOD	VALUES
TENSILE YIELD STRENGTH	MPa	ISO-527	70
TENSILE MODULUS	MPa	ISO-527	2900
STRAIN @ BREAK	%	ISO-527	40
FLEXURAL STRENGTH	MPa	ISO-178	100
FLEXURAL MODULUS	MPa	ISO-178	2400
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m ²	ISO-180	13
NOTCHED IZOD IMPACT STRENGTH -30°C	Kj/m ²	ISO-180	9
ROCKWELL HARDNESS		R scale	118
THERMAL PROPERTIES	UNIT	TEST METHOD	VALUES
HDT AT LOAD 1.8 Mpa	°C	ISO-75	80
HDT AT LOAD 0.45 Mpa	°C	ISO-75	160
UL FLAMMABILITY		UL-94 3mm	H.B.
MELTING POINT	°C	ISO-11357	265
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 ¹²
VOLUME RESISTANCE	Ohm x m	IEC 60093	10 ¹⁴
DIELECTRIC STRENGTH	kV/mm	IEC 60250	120
DIELECTRIC CONSTANT AT 1MHZ	kV/mm	IEC 60250	3.3

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