



creative thermoplastic compounds

PA803

Release Date: 08/01/2013

Impact Modified Polyamide 6.6 for Injection Moulding applications.

ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/m 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	1.5-1.7
MECHANICAL PROPERTIES	UNIT	TEST METHOD	VALUES
TENSILE YIELD STRENGTH	MPa	ISO-527	80
TENSILE MODULUS	MPa	ISO-527	2400
STRAIN @ BREAK	%	ISO-527	30
FLEXURAL STRENGTH	MPa	ISO-178	110
FLEXURAL MODULUS	MPa	ISO-178	2450
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m ²	ISO-180	12
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	256
MAX TEMP CONTINUOUS USE	°C		70
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 ¹¹
DIELECTRIC STRENGTH	kV/mm	IEC 60250	100
DIELECTRIC CONSTANT AT 1MHZ	kV/mm	IEC 60250	3.2

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