



creative thermoplastic compounds

PB140

Release Date: 06/09/2012

Polyamide 6, Slow Nucliation for Injection Moulding applications.

ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/cm ³	ISO-1183	1.14
WATER ABSORPTION (SATURATION)	%	ISO-62	9.5
MOISTURE ABSORPTION 23° C, 50% RH (SATURATION)	%	ISO-62	3
MOULD SHRINKAGE	%	ISO-2577	1.3-1.7
MECHANICAL PROPERTIES	UNIT	TEST METHOD	VALUES
TENSILE YIELD STRENGTH	MPa	ISO-527	90
STRAIN @ BREAK	%	ISO-527	>10
FLEXURAL STRENGTH	MPa	ISO-178	100
FLEXURAL MODULUS	MPa	ISO-178	2500
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m ²	ISO-180	5
NOTCHED IZOD IMPACT STRENGTH -30°C	Kj/m ²	ISO-180	3.5
NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m ²	ISO-179	5.5
NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m ²	ISO-179	3.5
UN NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m ²	ISO-179	N.B
UN NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m ²	ISO-179	N.B
ROCKWELL HARDNESS		R scale	120
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	185
UL FLAMMABILITY		UL-94 1.6mm	V-2
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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