



creative thermoplastic compounds

PB507

Release Date: 18/12/2012

Flame Retardant Halogen Free Polyamide 6 for Injection Moulding applications.

ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/cm ³	ISO-1183	1.30
WATER ABSORPTION (SATURATION)	%	ISO-62	7.5
MOISTURE ABSORPTION 23° C, 50% RH (SATURATION)	%	ISO-62	2.5
MOULD SHRINKAGE	%	ISO-2577	1-1.6
MECHANICAL PROPERTIES	UNIT	TEST METHOD	VALUES
TENSILE YIELD STRENGTH	MPa	ISO-527	80
TENSILE MODULUS	MPa	ISO-527	3700
STRAIN @ BREAK	%	ISO-527	8
FLEXURAL STRENGTH	MPa	ISO-178	120
FLEXURAL MODULUS	MPa	ISO-178	3400
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m ²	ISO-180	5
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
G.W.F.I	°C	IEC 60695	960
UL FLAMMABILITY		UL-94 0.8mm	V-0
MELTING POINT	°C	ISO-11357	218
MAX TEMP CONTINUOUS USE	°C		90
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 ¹⁴
DIELECTRIC STRENGTH	kV/mm	IEC 60250	100
DIELECTRIC CONSTANT AT 1MHZ	kV/mm	IEC 60250	3.5

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