



creative thermoplastic compounds

PB500

Release Date: 18/12/2012

Flame Retardant 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	15
FLEXURAL STRENGTH	MPa	ISO-178	120
FLEXURAL MODULUS	MPa	ISO-178	3400
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m ²	ISO-180	5
ROCKWELL HARDNESS		R scale	113
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 3mm	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

The information contained in this website is supplied in good faith. However, it is given purely as an indication. It shall not be construed in any way as formal commitment or warranty on our part. Notably in respect of the eventual infringement of any rights of third parties who may use our products. We remain at your entire disposal for any further information that you may require.