



creative thermoplastic compounds

RA116 / RA115

Release Date: 15/02/2013

Polyamide 6.6 for Injection Moulding applications.

ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/cm ³	ISO-1183	1.12-1.14
WATER ABSORPTION (SATURATION)	%	ISO-62	8.5
MOISTURE ABSORPTION 23° C, 50% RH (SATURATION)	%	ISO-62	2.8
MOULD SHRINKAGE	%	ISO-2577	1.4-1.8
MECHANICAL PROPERTIES	UNIT	TEST METHOD	VALUES
TENSILE YIELD STRENGTH	MPa	ISO-527	85
TENSILE MODULUS	MPa	ISO-527	3000
STRAIN @ BREAK	%	ISO-527	25
FLEXURAL STRENGTH	MPa	ISO-178	135
FLEXURAL MODULUS	MPa	ISO-178	2900
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m ²	ISO-180	4.5
ROCKWELL HARDNESS		R scale	118
THERMAL PROPERTIES	UNIT	TEST METHOD	VALUES
HDT AT LOAD 1.8 Mpa	°C	ISO-75	60
HDT AT LOAD 0.45 Mpa	°C	ISO-75	185
G.W.F.I	°C	IEC 60695	750
MELTING POINT	°C	ISO-11357	256
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	120
DIELECTRIC CONSTANT AT 1MHZ	kV/mm	IEC 60250	3.6

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