



creative thermoplastic compounds

PA100/PA100NT-N

Release Date: 30/12/2012

General Purpose Polyamide 6.6 grade for Injection Moulding applications.

ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/cm ³	ISO-1183	1.14
WATER ABSORPTION (SATURATION)	%	ISO-62	7.3
MOISTURE ABSORPTION 23° C, 50% RH (SATURATION)	%	ISO-62	4.4
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	2700
STRAIN @ BREAK	%	ISO-527	>10%
FLEXURAL STRENGTH	MPa	ISO-178	120
FLEXURAL MODULUS	MPa	ISO-178	2740
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m ²	ISO-180	6
NOTCHED IZOD IMPACT STRENGTH -30°C	Kj/m ²	ISO-180	5
NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m ²	ISO-179	3
NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m ²	ISO-179	2.5
UN NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m ²	ISO-179	NB
UN NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m ²	ISO-179	NB
ROCKWELL HARDNESS		R scale	118
THERMAL PROPERTIES	UNIT	TEST METHOD	VALUES
HDT AT LOAD 1.8 Mpa	°C	ISO-75	75
HDT AT LOAD 0.45 Mpa	°C	ISO-75	205
G.W.F.I	°C	IEC 60695	750
FLAMMABILITY	mm/min	FMVSS302	12.2
UL FLAMMABILITY		UL-94 1.6mm	V-2
MELTING POINT	°C	ISO-11357	264
MAX TEMP CONTINUOUS USE	°C		80
MAX TEMP SHORT PEAKS OPERATION	°C		150
ELECTRICAL PROPERTIES	UNIT	TEST METHOD	VALUES
SURFACE RESISTANCE	Ohm	IEC 60093	10 ¹²
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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