



creative thermoplastic compounds

PD100

Release Date: 23/02/2014

unfilled polyamide 12 for injection Moulding applications.

ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/cm ³	ISO-1183	1.01
WATER ABSORPTION (SATURATION)	%	ISO-62	1.5
MOISTURE ABSORPTION 23° C, 50% RH (SATURATION)	%	ISO-62	0.7
MOULD SHRINKAGE	%	ISO-2577	0.8
Viscosity			1.6-1.72
MECHANICAL PROPERTIES	UNIT	TEST METHOD	VALUES
TENSILE YIELD STRENGTH	MPa	ISO-527	45
TENSILE MODULUS	MPa	ISO-527	1100
STRAIN @ BREAK	%	ISO-527	>50
NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m ²	ISO-179	6
NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m ²	ISO-179	7
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	120
THERMAL PROPERTIES	UNIT	TEST METHOD	VALUES
HDT AT LOAD 1.8 Mpa	°C	ISO-75	45
HDT AT LOAD 0.45 Mpa	°C	ISO-75	115
UL FLAMMABILITY		UL-94 3mm	H.B.
MELTING POINT	°C	ISO-11357	178
ELECTRICAL PROPERTIES	UNIT	TEST METHOD	VALUES
SURFACE RESISTANCE	Ohm	IEC 60093	10 ¹²
VOLUME RESISTANCE	Ohm x m	IEC 60093	10 ¹¹
DIELECTRIC STRENGTH	kV/mm	IEC 60250	32

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