



creative thermoplastic compounds

PB901

Release Date: 22/05/2003

Polyamide 6 for very thin electrical extruded cable coating.

ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/cm ³	ISO-1183	1.14
WATER ABSORPTION (SATURATION)	%	ISO-62	5.5
MOULD SHRINKAGE	%	ISO-2577	1.2-1.6
MECHANICAL PROPERTIES	UNIT	TEST METHOD	VALUES
TENSILE YIELD STRENGTH	MPa	ISO-527	85
STRAIN @ BREAK	%	ISO-527	100
FLEXURAL STRENGTH	MPa	ISO-178	110
FLEXURAL MODULUS	MPa	ISO-178	2500
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m ²	ISO-180	3
THERMAL PROPERTIES	UNIT	TEST METHOD	VALUES
HDT AT LOAD 1.8 Mpa	°C	ISO-75	55
HDT AT LOAD 0.45 Mpa	°C	ISO-75	160
UL FLAMMABILITY		UL-94 3mm	V-2
MELTING POINT	°C	ISO-11357	218
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 ¹⁵
VOLUME RESISTANCE	Ohm x m	IEC 60093	10 ¹²
DIELECTRIC STRENGTH	kV/mm	IEC 60250	100
DIELECTRIC CONSTANT AT 1MHZ	kV/mm	IEC 60250	3.5

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