



creative thermoplastic compounds

PA4501G6

Release Date: 22/01/2013

30% Glass Fiber Reinforced Polyamide 6.6 for Low Friction applications.

ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/m ³	ISO-1183	1.38
WATER ABSORPTION (SATURATION)	%	ISO-62	0.13
MOISTURE ABSORPTION 23° C, 50% RH (SATURATION)	%	ISO-62	1.7
MOULD SHRINKAGE	%	ISO-2577	0.3-0.4
MECHANICAL PROPERTIES	UNIT	TEST METHOD	VALUES
TENSILE YIELD STRENGTH	MPa	ISO-527	190
TENSILE MODULUS	MPa	ISO-527	9200
STRAIN @ BREAK	%	ISO-527	3
FLEXURAL STRENGTH	MPa	ISO-178	280
FLEXURAL MODULUS	MPa	ISO-178	8800
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m ²	ISO-180	11.5
ROCKWELL HARDNESS		R scale	122
THERMAL PROPERTIES	UNIT	TEST METHOD	VALUES
HDT AT LOAD 1.8 Mpa	°C	ISO-75	249
HDT AT LOAD 0.45 Mpa	°C	ISO-75	259
UL FLAMMABILITY		UL-94 3mm	H.B.
MELTING POINT	°C	ISO-11357	256
MAX TEMP CONTINUOUS USE	°C		120
MAX TEMP SHORT PEAKS OPERATION	°C		240
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	90
DIELECTRIC CONSTANT AT 1MHZ	kV/mm	IEC 60250	3.5

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