



creative thermoplastic compounds

PB302G50BK39P

Release Date: 02/11/2012

50% Glass Fiber Reinforced, UV and Heat Stabilized Polyamide 6. Approved and listed by W.R.C potable water and NSF/ANSI 61 international.

ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/cm ³	ISO-1183	1.55
WATER ABSORPTION (SATURATION)	%	ISO-62	4.8
MOISTURE ABSORPTION 23° C, 50% RH (SATURATION)	%	ISO-62	1.5
MOULD SHRINKAGE	%	ISO-2577	0.1-0.4
MECHANICAL PROPERTIES	UNIT	TEST METHOD	VALUES
TENSILE YIELD STRENGTH	MPa	ISO-527	220
TENSILE MODULUS	MPa	ISO-527	14500
STRAIN @ BREAK	%	ISO-527	3
FLEXURAL STRENGTH	MPa	ISO-178	320
FLEXURAL MODULUS	MPa	ISO-178	14000
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m ²	ISO-180	19
NOTCHED IZOD IMPACT STRENGTH -30°C	Kj/m ²	ISO-180	13
UN NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m ²	ISO-179	90
ROCKWELL HARDNESS		R scale	124
THERMAL PROPERTIES	UNIT	TEST METHOD	VALUES
HDT AT LOAD 1.8 Mpa	°C	ISO-75	210
HDT AT LOAD 0.45 Mpa	°C	ISO-75	220
UL FLAMMABILITY		UL-94 3mm	H.B.
MELTING POINT	°C	ISO-11357	218
MAX TEMP CONTINUOUS USE	°C		110
MAX TEMP SHORT PEAKS OPERATION	°C		220
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	80
DIELECTRIC CONSTANT AT 1MHZ	kV/mm	IEC 60250	3.8

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