



creative thermoplastic compounds

PA517

Release Date: 13/11/2009

Halogen Free Polyamide 6.6/6. Formulated to meet V-0 UL-94 , for Injection Moulding application.

ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/cm ³	ISO-1183	1.15
WATER ABSORPTION (SATURATION)	%	ISO-62	7.5
MOISTURE ABSORPTION 23° C, 50% RH (SATURATION)	%	ISO-62	2.5
MOULD SHRINKAGE	%	ISO-2577	1-1.4
MECHANICAL PROPERTIES	UNIT	TEST METHOD	VALUES
TENSILE YIELD STRENGTH	MPa	ISO-527	85
STRAIN @ BREAK	%	ISO-527	10
FLEXURAL STRENGTH	MPa	ISO-178	130
FLEXURAL MODULUS	MPa	ISO-178	3500
NOTCHED IZOD IMPACT STRENGTH +23°C	KJ/m ²	ISO-180	4
THERMAL PROPERTIES	UNIT	TEST METHOD	VALUES
HDT AT LOAD 1.8 Mpa	°C	ISO-75	95
HDT AT LOAD 0.45 Mpa	°C	ISO-75	220
G.W.F.I	°C	IEC 60695	850/1.6mm
G.W.I.T.	°C	IEC 60695	750/1.6
UL FLAMMABILITY		UL-94 V-0 @ 0.8mm	5VA
MELTING POINT	°C	ISO-11357	250
MAX TEMP CONTINUOUS USE	°C		80
MAX TEMP SHORT PEAKS OPERATION	°C		180
ELECTRICAL PROPERTIES	UNIT	TEST METHOD	VALUES
SURFACE RESISTANCE	Ohm	IEC 60093	10 ¹³
VOLUME RESISTANCE	Ohm x m	IEC 60093	10 ¹⁵
DIELECTRIC STRENGTH	kV/mm	IEC 60250	70
DIELECTRIC CONSTANT AT 1MHZ	kV/mm	IEC 60250	3.3

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