



creative thermoplastic compounds

PF100

Release Date: 05/10/2010

General Purpose, High Viscosity PBT for Injection Moulding applications. Approved and listed by WRAS potable water.

ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/cm ³	ISO-1183	1.3
WATER ABSORPTION (SATURATION)	%	ISO-62	0.6
MOISTURE ABSORPTION 23° C, 50% RH (SATURATION)	%	ISO-62	0.25
MOULD SHRINKAGE	%	ISO-2577	2.1-2.3
MFI	g/10min	ISO-1133 250/2.16	25
MECHANICAL PROPERTIES	UNIT	TEST METHOD	VALUES
TENSILE YIELD STRENGTH	MPa	ISO-527	55
STRAIN @ BREAK	%	ISO-527	60
FLEXURAL STRENGTH	MPa	ISO-178	95
FLEXURAL MODULUS	MPa	ISO-178	3000
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m ²	ISO-180	5
THERMAL PROPERTIES	UNIT	TEST METHOD	VALUES
HDT AT LOAD 1.8 Mpa	°C	ISO-75	70
HDT AT LOAD 0.45 Mpa	°C	ISO-75	170
G.W.F.I	°C	IEC 60695	750
UL FLAMMABILITY		UL-94 3mm	H.B.
MELTING POINT	°C	ISO-11357	225
ELECTRICAL PROPERTIES	UNIT	TEST METHOD	VALUES
VOLUME RESISTANCE	Ohm x m	IEC 60093	10 ¹⁶
DIELECTRIC STRENGTH	kV/mm	IEC 60250	30
DIELECTRIC CONSTANT AT 1MHZ	kV/mm	IEC 60250	3.2

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