



creative thermoplastic compounds

RF300G4

Release Date: 25/05/2003

Industrial Grade 20% Glass Fiber Reinforced PBT for Injection Moulding applications.

ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/cm ³	ISO-1183	1.45
WATER ABSORPTION (SATURATION)	%	ISO-62	0.5
MOISTURE ABSORPTION 23° C, 50% RH (SATURATION)	%	ISO-62	0.15
MOULD SHRINKAGE	%	ISO-2577	0.4
MFI	g/10min	ISO-1133 250/2.16	20
MECHANICAL PROPERTIES	UNIT	TEST METHOD	VALUES
TENSILE YIELD STRENGTH	MPa	ISO-527	110
STRAIN @ BREAK	%	ISO-527	3
FLEXURAL STRENGTH	MPa	ISO-178	170
FLEXURAL MODULUS	MPa	ISO-178	5300
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m ²	ISO-180	7.5
THERMAL PROPERTIES	UNIT	TEST METHOD	VALUES
HDT AT LOAD 1.8 Mpa	°C	ISO-75	205
HDT AT LOAD 0.45 Mpa	°C	ISO-75	220
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
SURFACE RESISTANCE	Ohm	IEC 60093	>10 ¹⁵
DIELECTRIC STRENGTH	kV/mm	IEC 60250	34
DIELECTRIC CONSTANT AT 1MHZ	kV/mm	IEC 60250	3.6

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