



creative thermoplastic compounds

PF300G4

Release Date: 01/07/2008

20% Glass Fiber Reinforced PBT for Injection Moulding applications. (Attached document: ISO Test)

ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/cm ³	ISO-1183	1.45
WATER ABSORPTION (SATURATION)	%	ISO-62	0.15
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	115
TENSILE MODULUS	MPa	ISO-527	6600
STRAIN @ BREAK	%	ISO-527	3
FLEXURAL STRENGTH	MPa	ISO-178	155
FLEXURAL MODULUS	MPa	ISO-178	5000
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m ²	ISO-180	9
NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m ²	ISO-179	11
NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m ²	ISO-179	7
UN NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m ²	ISO-179	70
UN NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m ²	ISO-179	62
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
G.W.F.I	°C	IEC 60695	750
G.W.I.T.	°C	IEC 60695	650
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 ¹⁵
DIELECTRIC STRENGTH	kV/mm	IEC 60250	34
DIELECTRIC CONSTANT AT 1MHZ	kV/mm	IEC 60250	3.6
CTI		IEC 60112	350

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