



creative thermoplastic compounds

PF306G6

Release Date: 16/11/2005

30% Glass Fiber Reinforced, Low Viscosity PBT for Injection Moulding applications.

ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/m ³	ISO-1183	1.53
WATER ABSORPTION (SATURATION)	%	ISO-62	0.5
MOISTURE ABSORPTION 23° C, 50% RH (SATURATION)	%	ISO-62	0.1
MOULD SHRINKAGE	%	ISO-2577	0.3
MFI	g/10min	ISO-1133 250/2.16	18
MECHANICAL PROPERTIES	UNIT	TEST METHOD	VALUES
TENSILE YIELD STRENGTH	MPa	ISO-527	135
TENSILE MODULUS	MPa	ISO-527	9900
STRAIN @ BREAK	%	ISO-527	2.5
FLEXURAL STRENGTH	MPa	ISO-178	200
FLEXURAL MODULUS	MPa	ISO-178	8000
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m ²	ISO-180	12
NOTCHED IZOD IMPACT STRENGTH -30°C	Kj/m ²	ISO-180	9.2
NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m ²	ISO-179	11
NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m ²	ISO-179	8.7
UN NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m ²	ISO-179	65
UN NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m ²	ISO-179	65
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	650
FLAMMABILITY	mm/min	FMVSS302	30
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 ¹²
DIELECTRIC STRENGTH	kV/mm	IEC 60250	34
DIELECTRIC CONSTANT AT 1MHZ	kV/mm	IEC 60250	3.8

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