



creative thermoplastic compounds

PF310G6

Release Date: 09/12/2014

30% Glass Fiber Reinforced PBT Alloy, Low Warp properties, UV Stabilized 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	0.09-0.6
MECHANICAL PROPERTIES	UNIT	TEST METHOD	VALUES
TENSILE YIELD STRENGTH	MPa	ISO-527	140
TENSILE MODULUS	MPa	ISO-527	10400
STRAIN @ BREAK	%	ISO-527	2.5
FLEXURAL STRENGTH	MPa	ISO-178	210
FLEXURAL MODULUS	MPa	ISO-178	9920
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m ²	ISO-180	10
NOTCHED IZOD IMPACT STRENGTH -30°C	Kj/m ²	ISO-180	8
NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m ²	ISO-179	8
UN NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m ²	ISO-179	56
THERMAL PROPERTIES	UNIT	TEST METHOD	VALUES
HDT AT LOAD 1.8 Mpa	°C	ISO-75	194
HDT AT LOAD 0.45 Mpa	°C	ISO-75	219
FLAMMABILITY	mm/min	FMVSS302	15
UL FLAMMABILITY		UL-94	H.B.
MELTING POINT	°C	ISO-11357	225
MAX TEMP CONTINUOUS USE	°C		130
MAX TEMP SHORT PEAKS OPERATION	°C		200
ELECTRICAL PROPERTIES	UNIT	TEST METHOD	VALUES
VOLUME RESISTANCE	Ohm x m	IEC 60093	>10 ¹⁵
DIELECTRIC STRENGTH	kV/mm	IEC 60250	3.8

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