



creative thermoplastic compounds

PA310G8BK10

Release Date: 04/01/2013

**Heat Stabilized 40% Glass Fiber Reinforced Polyamide 6.6 for Injection Moulding applications.
Approved and listed by NSF/ANSI 61 international.**

ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/cm ³	ISO-1183	1.48
WATER ABSORPTION (SATURATION)	%	ISO-62	5
MOISTURE ABSORPTION 23° C, 50% RH (SATURATION)	%	ISO-62	1.5
MOULD SHRINKAGE	%	ISO-2577	0.2-0.6
MECHANICAL PROPERTIES	UNIT	TEST METHOD	VALUES
TENSILE YIELD STRENGTH	MPa	ISO-527	210
TENSILE MODULUS	MPa	ISO-527	12165
STRAIN @ BREAK	%	ISO-527	2
FLEXURAL STRENGTH	MPa	ISO-178	320
FLEXURAL MODULUS	MPa	ISO-178	13500
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m ²	ISO-180	13
NOTCHED IZOD IMPACT STRENGTH -30°C	Kj/m ²	ISO-180	12
NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m ²	ISO-179	13.5
NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m ²	ISO-179	11
UN NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m ²	ISO-179	90
UN NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m ²	ISO-179	75
ROCKWELL HARDNESS		R scale	122
THERMAL PROPERTIES	UNIT	TEST METHOD	VALUES
HDT AT LOAD 1.8 Mpa	°C	ISO-75	240
HDT AT LOAD 0.45 Mpa	°C	ISO-75	260
FLAMMABILITY	mm/min	FMVSS302	10
UL FLAMMABILITY		UL-94 3mm	H.B.
MELTING POINT	°C	ISO-11357	256
MAX TEMP CONTINUOUS USE	°C		130
MAX TEMP SHORT PEAKS OPERATION	°C		240
ELECTRICAL PROPERTIES	UNIT	TEST METHOD	VALUES
SURFACE RESISTANCE	Ohm	IEC 60093	10 ¹²
VOLUME RESISTANCE	Ohm x m	IEC 60093	10 ¹⁵
DIELECTRIC STRENGTH	kV/mm	IEC 60250	90
DIELECTRIC CONSTANT AT 1MHZ	kV/mm	IEC 60250	3.5

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