



creative thermoplastic compounds

PA309G6

Release Date: 08/04/2015

30% Glass Fiber Reinforced, UV Stabilized Polyamide 6.6 Co-polymer for Injection Moulding applications.

ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/cm ³	ISO-1183	1.35
WATER ABSORPTION (SATURATION)	%	ISO-62	4
MOISTURE ABSORPTION 23° C, 50% RH (SATURATION)	%	ISO-62	1.7
MOULD SHRINKAGE	%	ISO-2577	0.12-0.7
MECHANICAL PROPERTIES	UNIT	TEST METHOD	VALUES
TENSILE YIELD STRENGTH	MPa	ISO-527	190
TENSILE MODULUS	MPa	ISO-527	10000
STRAIN @ BREAK	%	ISO-527	3
FLEXURAL STRENGTH	MPa	ISO-178	280
FLEXURAL MODULUS	MPa	ISO-178	9000
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m ²	ISO-180	15
NOTCHED IZOD IMPACT STRENGTH -30°C	Kj/m ²	ISO-180	11
NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m ²	ISO-179	12
NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m ²	ISO-179	11
UN NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m ²	ISO-179	84
UN NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m ²	ISO-179	74
THERMAL PROPERTIES	UNIT	TEST METHOD	VALUES
HDT AT LOAD 1.8 Mpa	°C	ISO-75	220
HDT AT LOAD 0.45 Mpa	°C	ISO-75	240
UL FLAMMABILITY		UL-94 3mm	H.B.
MELTING POINT	°C	ISO-11357	243
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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