



creative thermoplastic compounds

Polytron A50N01

Release Date: 09/02/2014

50% Long Glass Fiber Reinforced Natural Nylon 6.6 Heat Stabilized, for Injection Moulding application.

ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/m ³	ISO-1183	1.58
WATER ABSORPTION (SATURATION)	%	ISO-62	3
MOISTURE ABSORPTION 23° C, 50% RH (SATURATION)	%	ISO-62	1
MOULD SHRINKAGE	%	ISO-2577	0.1-0.3
MECHANICAL PROPERTIES	UNIT	TEST METHOD	VALUES
TENSILE YIELD STRENGTH	MPa	ISO-527	250
TENSILE MODULUS	MPa	ISO-527	18000
STRAIN @ BREAK	%	ISO-527	1.9
FLEXURAL STRENGTH	MPa	ISO-178	380
FLEXURAL MODULUS	MPa	ISO-178	17000
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m ²	ISO-180	32
NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m ²	ISO-179	30
NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m ²	ISO-179	28
UN NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m ²	ISO-179	95
UN NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m ²	ISO-179	75
THERMAL PROPERTIES	UNIT	TEST METHOD	VALUES
HDT AT LOAD 1.8 Mpa	°C	ISO-75	253
UL FLAMMABILITY		UL-94 3mm	H.B.

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