creative thermoplastic compounds

Polytron P50N01

Release Date: 06/02/2014

A Chemically Coupled 50% Long Glass Fiber Reinforced Natural Polypropylene, Heat Stabilized for Injection Moulding application.

ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/m^3	ISO-1183	1.33
MOISTURE ABSORPTION 23° C, 50% RH (SATURATION)	%	ISO-62	0.2-0.3
MECHANICAL PROPERTIES	**UNIT**	**TEST METHOD**	**VALUES**
TENSILE YIELD STRENGTH	MPa	ISO-527	145
TENSILE MODULUS	MPa	ISO-527	12500
STRAIN @ BREAK	%	ISO-527	1.9
FLEXURAL STRENGTH	MPa	ISO-178	220
FLEXURAL MODULUS	MPa	ISO-178	12000
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m^2	ISO-180	30
NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m^2	ISO-179	30
NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m^2	ISO-179	25
UN NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m^2	ISO-179	70
UN NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m^2	ISO-179	55
THERMAL PROPERTIES	**UNIT**	**TEST METHOD**	**VALUES**
HDT AT LOAD 1.8 Mpa	°C	ISO-75	152
G.W.F.I	°C	IEC 60695	750
FLAMMABILITY	mm/min	FMVSS302	20
UL FLAMMABILITY		UL-94 3mm	H.B.
MELTING POINT	°C	ISO-11357	168

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