creative thermoplastic compounds

Polytron P30N03

Release Date: 09/02/2014

A Chemically Coupled 30% Long Glass Fiber Reinforced Impact Modified Natural Polypropylene, Heat Stabilized for Injection Moulding application.

These products have significantly improved impact performance characteristics compared to other grades of Polyproplene long fiber thermoplastics. The room temperature Charpy impact properties are 25 to 30% higher at room temperature and at low temperature (-40 C).

ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/m^3	ISO-1183	1.1
MOULD SHRINKAGE	%	ISO-2577	0.1-0.2
MECHANICAL PROPERTIES	**UNIT**	**TEST METHOD**	**VALUES**
TENSILE YIELD STRENGTH	MPa	ISO-527	95
TENSILE MODULUS	MPa	ISO-527	6800
STRAIN @ BREAK	%	ISO-527	2.9
FLEXURAL STRENGTH	MPa	ISO-178	145
FLEXURAL MODULUS	MPa	ISO-178	6500
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m^2	ISO-180	20
NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m^2	ISO-179	21
NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m^2	ISO-179	20
UN NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m^2	ISO-179	55
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	149
G.W.F.I	°C	IEC 60695	750
FLAMMABILITY	mm/min	FMVSS302	10
UL FLAMMABILITY		UL-94 3mm	H.B.
MELTING POINT	°C	ISO-11357	167

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