



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 Polypropylene 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 <sup>3</sup>	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 <sup>2</sup>	ISO-180	20
NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m <sup>2</sup>	ISO-179	21
NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m <sup>2</sup>	ISO-179	20
UN NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m <sup>2</sup>	ISO-179	55
UN NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m <sup>2</sup>	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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