



creative thermoplastic compounds

## Polytron P50B03

Release Date: 09/02/2014

**A Chemically Coupled 50% Long Glass Fiber Reinforced Impact Modified Black 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/cm <sup>3</sup>	ISO-1183	1.33
MOULD SHRINKAGE	%	ISO-2577	0.1-0.15
MECHANICAL PROPERTIES	UNIT	TEST METHOD	VALUES
TENSILE YIELD STRENGTH	MPa	ISO-527	120
TENSILE MODULUS	MPa	ISO-527	11000
STRAIN @ BREAK	%	ISO-527	2.1
FLEXURAL STRENGTH	MPa	ISO-178	185
FLEXURAL MODULUS	MPa	ISO-178	10500
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m <sup>2</sup>	ISO-180	26
NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m <sup>2</sup>	ISO-179	29
NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m <sup>2</sup>	ISO-179	27
UN NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m <sup>2</sup>	ISO-179	75
UN NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m <sup>2</sup>	ISO-179	85
THERMAL PROPERTIES	UNIT	TEST METHOD	VALUES
HDT AT LOAD 1.8 Mpa	°C	ISO-75	153
G.W.F.I	°C	IEC 60695	750
FLAMMABILITY	mm/min	FMVSS302	30
UL FLAMMABILITY		UL-94 3mm	H.B
MELTING POINT	°C	ISO-11357	167

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