



creative thermoplastic compounds

Polytron P40B03

Release Date: 14/09/2010

A Chemically Coupled 40% 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 ³	ISO-1183	1.22
MOULD SHRINKAGE	%	ISO-2577	0.1-0.2
MECHANICAL PROPERTIES	UNIT	TEST METHOD	VALUES
TENSILE YIELD STRENGTH	MPa	ISO-527	105
TENSILE MODULUS	MPa	ISO-527	8600
STRAIN @ BREAK	%	ISO-527	2.4
FLEXURAL STRENGTH	MPa	ISO-178	155
FLEXURAL MODULUS	MPa	ISO-178	8500
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m ²	ISO-180	25
NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m ²	ISO-179	24
NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m ²	ISO-179	22
UN NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m ²	ISO-179	65
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	151
G.W.F.I	°C	IEC 60695	750
FLAMMABILITY	mm/min	FMVSS302	30
MELTING POINT	°C	ISO-11357	167

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