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 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/cm^3	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^2	ISO-180	26
NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m^2	ISO-179	29
NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m^2	ISO-179	27
UN NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m^2	ISO-179	75
UN NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m^2	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

Moshav Ram - On ISRAEL 19205 Tel: +972 4 6599900 Fax: +972 4 6499763.