



creative thermoplastic compounds

Polytron P50B01

Release Date: 02/02/2014

A Chemically Coupled 50% Long Glass Fiber Reinforced Black Polypropylene, Heat Stabilized for High Temperature applications such as under the hood automotive parts.

ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/cm ³	ISO-1183	1.33
MOULD SHRINKAGE	%	ISO-2577	0.2-0.3
MECHANICAL PROPERTIES	UNIT	TEST METHOD	VALUES
TENSILE YIELD STRENGTH	MPa	ISO-527	135
TENSILE MODULUS	MPa	ISO-527	12500
STRAIN @ BREAK	%	ISO-527	1.6
FLEXURAL STRENGTH	MPa	ISO-178	210
FLEXURAL MODULUS	MPa	ISO-178	12000
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m ²	ISO-180	25
NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m ²	ISO-179	25
NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m ²	ISO-179	22
UN NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m ²	ISO-179	60
UN NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m ²	ISO-179	45
THERMAL PROPERTIES	UNIT	TEST METHOD	VALUES
HDT AT LOAD 1.8 Mpa	°C	ISO-75	152
G.W.F.I	°C	IEC 60695	750
FLAMMABILITY	mm/min	FMVSS302	20
UL FLAMMABILITY		UL-94 3mm	H.B.
MELTING POINT	°C	ISO-11357	168

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