



creative thermoplastic compounds

PA106

Release Date: 22/01/2013

Polyamide 66 with Molibdenium disulfide, low Friction and High Abrasion Resistance for Injection Moulding applications.

ISO

PHYSICAL PROPERTIES	UNIT	TEST METHOD	VALUES
DENSITY	g/cm ³	ISO-1183	1.14
WATER ABSORPTION (SATURATION)	%	ISO-62	8.5
MOISTURE ABSORPTION 23° C, 50% RH (SATURATION)	%	ISO-62	2.8
MOULD SHRINKAGE	%	ISO-2577	1.4-1.8
MECHANICAL PROPERTIES	UNIT	TEST METHOD	VALUES
TENSILE YIELD STRENGTH	MPa	ISO-527	90
TENSILE MODULUS	MPa	ISO-527	3000
STRAIN @ BREAK	%	ISO-527	>10
FLEXURAL STRENGTH	MPa	ISO-178	120
FLEXURAL MODULUS	MPa	ISO-178	2700
NOTCHED IZOD IMPACT STRENGTH +23°C	Kj/m ²	ISO-180	5.5
NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m ²	ISO-179	5
UN NOTCHED CHARPY IMPACT STRENGTH +23°C	Kj/m ²	ISO-179	N.B
UN NOTCHED CHARPY IMPACT STRENGTH -30°C	Kj/m ²	ISO-179	N.B
ROCKWELL HARDNESS		R scale	115
THERMAL PROPERTIES	UNIT	TEST METHOD	VALUES
HDT AT LOAD 1.8 Mpa	°C	ISO-75	100
HDT AT LOAD 0.45 Mpa	°C	ISO-75	210
FLAMMABILITY	mm/min	FMVSS302	10.8
UL FLAMMABILITY		UL-94 3mm	V-2
MELTING POINT	°C	ISO-11357	256
MAX TEMP CONTINUOUS USE	°C		80
MAX TEMP SHORT PEAKS OPERATION	°C		150
ELECTRICAL PROPERTIES	UNIT	TEST METHOD	VALUES
SURFACE RESISTANCE	Ohm	IEC 60093	10 ¹³
VOLUME RESISTANCE	Ohm x m	IEC 60093	10 ¹⁵
DIELECTRIC STRENGTH	kV/mm	IEC 60250	120
DIELECTRIC CONSTANT AT 1MHZ	kV/mm	IEC 60250	3.6

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