

FORMOCON® FM090

Copolymer Polyformaldehyde-fpc-tw

Good liquidity,HB

Introduction

Characteristics: Standard flow, minimal mould Application: Buttons and press in fasteners, Plumbing and hardware, Gears, Electronic parts, Automotive parts, Household, Bearing, Other injection parts. Also known as FORMOSACON&&

Product Description

Supplier	fpc-tw
Generic	Copolymer Polyformaldehyde
Material Status	Commercial: Active
Features	Good liquidity,HB
Availabilities	North America,Asia Pacific,Europe

Technical Data

PHYSICAL	Nominal value	Unit	Test method
Density	1.41	g/cm ³	ASTM D792
Melt Flow Rate			
190°C , 2.16kg	9.0	g/10min	ASTM D1238
Shrinkage			
MD : 3.0 mm	1.8 to 2.2	%	ASTM D955
Water Absorption			
Equilibrium, 23 °C, 69% RH	0.22	%	ASTM D570
IMPACT	Nominal value	Unit	Test method
Izod Notched Impact strength			
23°C	64	J/m	ASTM D256
THERMAL	Nominal value	Unit	Test method
HDT			ASTM D648
0.45 MPa, unannealed	158	°C	ASTM D648
1.8 MPa, unannealed	110	°C	ASTM D648
Vicat Softening Temperature	162	°C	ASTM D1525
Melting temperature	165	°C	DSC
Coeff.of linear therm expansion			
MD	8.5E-5	1/°C	ASTM D696
ELECTRICAL	Nominal value	Unit	Test method
Surface resistivity	1.0E+16	ohms	ASTM D257
Volume resistivity			

Disclaimer

The information in this data table was obtained from the manufacturer of the material, and the author made every effort to ensure the accuracy of this data. The document provider does not assume any legal responsibility and strongly recommends verifying with the material supplier before the final selection of materials.

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23°C	1.0E+14	ohms·cm	ASTM D257
Dielectric strength			
2 mm	24	kV/mm	ASTM D149
Dielectric constant			
50 Hz	3.80		IEC 60250
1 kHz	3.80		IEC 60250
1 MHz	3.80		IEC 60250
FLAME CHARACTERISTICS	Nominal value	Unit	Test method
Flame Class Rating	HB		UL 94
MECHANICAL	Nominal value	Unit	Test method
Rockwell hardness			
M-level	80		ASTM D785
R-level	115		ASTM D785
tensile strength			
yield	60.8	MPa	ASTM D638
Tensile strain			
fracture	60	%	ASTM D638
Flexural Modulus	2550	MPa	ASTM D790
Flexural Strength	93.2	MPa	ASTM D790
compressive strength			
1% strain	31.4	MPa	ASTM D695
10% strain	108	MPa	ASTM D695

Process Conditions

No Data

Notes

1. Typical properties: these are not to be construed as specifications.
2. 50%RH

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