

# FORMOCON® FM270

Copolymer Polyformaldehyde-fpc-tw

High liquidity,HB

## Introduction

Characteristics: High flow. Application: Zipper, electronic parts, press-in fasteners, gears, and electronic parts. Automotive parts, Household appliances, Other small mechanical parts Also known as FORMOSACON&&

## Product Description

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

## Technical Data

PHYSICAL	Nominal value	Unit	Test method
Density	1.41	g/cm <sup>3</sup>	ASTM D792
Melt Flow Rate			
190°C , 2.16kg	27	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	53	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			IEC 60250
50 Hz	3.80		IEC 60250
1 kHz	3.80		IEC 60250
1 MHz	3.80		IEC 60250
<b>FLAME CHARACTERISTICS</b>	<b>Nominal value</b>	<b>Unit</b>	<b>Test method</b>
Flame Class Rating	HB		UL 94
<b>MECHANICAL</b>	<b>Nominal value</b>	<b>Unit</b>	<b>Test method</b>
Rockwell hardness			
M-level	80		ASTM D785
tensile strength			
yield	60.8	MPa	ASTM D638
Tensile strain			
fracture	45	%	ASTM D638
Flexural Modulus	2550	MPa	ASTM D790
Flexural Strength	93.2	MPa	ASTM D790
compressive strength			ASTM D695
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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