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
Availabilitys	North America,Asia Pacific,Europe

Technical Data

PHYSICAL	Nominal value	Unit	Test method
Density	1.41	g/cm³	ASTM D792
Melt Flow Rate			
190℃ , 2.16kg	9.0	g/10min	ASTM D1238
Shrinkage			
MD : 3.0 mm	1.8 to 2.2	%	ASTM D955
Water Absorption			
Equilibrium, 23 ℃, 69% RH	0.22	%	ASTM D570
IMPACT	**Nominal value**	**Unit**	**Test method**
Izod Notched Impact strength			
23℃	64	J/m	ASTM D256
THERMAL	**Nominal value**	**Unit**	**Test method**
HDT			ASTM D648
0.45 MPa, unannealed	158	℃	ASTM D648
1.8 MPa, unannealed	110	℃	ASTM D648
Vicat Softening Temperature	162	℃	ASTM D1525
Melting temperature	165	℃	DSC
Coeff.of linear therm expansion			
MD	8.5E-5	1/℃	ASTM D696
ELECTRICAL	**Nominal value**	**Unit**	**Test method**
Surface resistivity	1.0E+16	ohms	ASTM D257
Volume resistivity			

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23℃	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
FLAME CHARACTERISTICS	Nominal value	Unit	Test method
Flame Class Rating	HB		UL 94
MECHANICAL	Nominal value	Unit	Test method
Rockwell hardness			ASTM D785
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			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