

FORMOCON® FM270

Acetal (POM) Copolymer

Formosa Plastics Corporation

Message:

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

General Information			
UL YellowCard	E173318-226133		
Features	High Flow		
Uses	Electrical/Electronic Applications		
	Fasteners		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	27	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	1.8 to 2.2	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 69%RH)	0.22	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	80		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	60.8	MPa	ASTM D638
Tensile Elongation (Break)	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	
10% Strain	108	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	158	°C	

1.8 MPa, Unannealed	110	°C	
Vicat Softening Temperature	162	°C	ASTM D1525
Melting Temperature	165	°C	DSC
CLTE - Flow	8.5E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ¹	1.0E+16	ohms	ASTM D257
Volume Resistivity ² (23°C)	1.0E+14	ohms·cm	ASTM D257
Dielectric Strength (2.00 mm)	24	kV/mm	ASTM D149
Dielectric Constant			IEC 60250
50 Hz	3.80		
1 kHz	3.80		
1 MHz	3.80		
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
NOTE			
1.	50%RH		
2.	50%RH		

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