

FORMOCON® FM450

Acetal (POM) Copolymer

Formosa Plastics Corporation

Message:

Characteristics: Super high-flow.

Application: Press-in fasteners, Zippers, Gears, Electronic parts, Automotive parts,
Household appliances,
Other small mechanical parts.

Also known as FORMOSACON

General Information			
UL YellowCard	E173318-226135		
Features	High Flow		
Uses	Electrical/Electronic Applications		
	Fasteners		
	Gears		
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)	45	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)	35	%	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)	44	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		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

