FORMOCON® FM090

Acetal (POM) Copolymer

Formosa Plástics Corporation



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Technical Data

Product Description

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

General			
Material Status	Commercial: Active		
Literature ¹	Technical Datasheet - Data Table (English)		
UL Yellow Card ²	• E173318-226133		
Search for UL Yellow Card	Formosa Plastics Corporation		
Availability	 Asia Pacific 	 Europe 	 North America
Features	Good Flow		
Uses	Automotive ApplicationsBearings	ButtonsElectrical/Electronic Applications	Household Goods
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)	9.0 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	
Mechanical	Nominal Value Unit	Test Method	
Tensile Strength (Yield)	60.8 MPa	ASTM D638	
Tensile Elongation (Break)	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		
10% Strain	108 MPa		
Impact	Nominal Value Unit	Test Method	
Notched Izod Impact (23°C)	64 J/m	ASTM D256	
Hardness	Nominal Value Unit	Test Method	
Rockwell Hardness		ASTM D785	
M-Scale	80		
R-Scale	115		
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	0.000085 cm/cm/°C	ASTM D696	
Electrical	Nominal Value Unit	Test Method	
Surface Resistivity ⁴	1.0E+16 ohm	ASTM D257	
Volume Resistivity ⁴ (23°C)	1.0E+14 ohm·cm	ASTM D257	
Dielectric Strength (2.00 mm)	24 kV/mm	ASTM D149	
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Electrical	Nominal Value Unit	Test Method
Dielectric Constant		IEC 60250
50 Hz	3.80	
1 kHz	3.80	
1 MHz	3.80	
Flammability	Nominal Value Unit	Test Method
Flame Rating	НВ	UL 94

Notes

^{4 50%}RH



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¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL IDES continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

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Where to Buy

Supplier

Formosa Plastics Corporation

Taipei, Taiwan

Telephone: +886-2-2712-2211 Web: http://www.fpc.com.tw/

Distributor

Leonardi

Telephone: +39-71-7300058 Web: http://www.leonardi.it/

Availability: Italy



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"With UL IDES data services, our website now displays the most current information on the products we distribute and links to our backend RFQ and sales order system, adding both value and service for our customers."

- Kevin Chase, Owner & President, Chase Plastics



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