

FORMOCON[®] FM090

Acetal Co-Polymer

Technical Data

Characteristics: Standard flow, minimal mould

Application: Buttons and press-in fasteners, plumbing and hardware, gears, electronic parts, automotive parts, household appliances, bearing, other injection parts.

General property	Unit	Test Method	FM090
MI value	g/10 min	ASTM D1238	9
Specific Gravity		ASTM D792	1.41
Rockwell Hardness	MScale	ASTM D785	80
Flexural Strength	Kgf/cm ²	ASTM D790	950
Flexural Modulus	Kgf/cm ²	ASTM D790	26000
Tensile Strength at yield point	Kgf/cm ²	ASTM D638	620
Tensile Elongation at break point	%	ASTM D638	60
Izod Impact Strength	Kgf/cm ²	ASTM D256	6.5
Compressive Stress 1% deformation	Kgf/cm ²	ASTM D695	320
Stress 10% deformation	Kgf/cm ²	ASTM D695	1100
Water absorption 23 °C (69%) RH	%	ASTM D570	0.22
Flammability (UL 94)		UL94	HB
Mold Shrinkage (3 mm [†] , 4in disk)	%		1.8 / 2.2
Heat Deflection Temperature 18.6 Kgf/cm ²	°C	ASTM D648	110
Heat Deflection Temperature 4.6 Kgf/cm ²	°C	ASTM D648	158
Linear Expansion Factor	Cm/cm °C×10 ⁻⁵	ASTM D696	8.45
Melting Point	°C	ASTM DSC	165
Vicat Softening Temperature	°C	ASTM D1525	162
Volume Resistivity 23°C 50% RH	Ω.cm	ASTM D257	1×10 ¹⁴
Surface Resistivity 23°C 50% RH	Ω	ASTM D257	1×10 ¹⁶

Note: above data are shown for reference only



FORMOSA POLYCHEM CORPORATION

ACETAL COPOLYMER (POM)

Features

Standard-flow
Weather-Resistant

Applications

Automotive parts
Any outdoor products
Curtain parts

Typical Properties

Properties	Test Method	Unit	Typical Value
Melt Index	ISO 1133	g/10min	9
Density	ISO 1183	g/cm ³	1.41
Rockwell Hardness	ISO 2039-2	M	80
Flexural Strength	ISO 178	MPa	88
Flexural Modulus	ISO 178	MPa	2500
Tensile Strength (at yield point)	ISO 527-2/1A	MPa	62
Tensile Elongation (at break point)	ISO 527-2/1A	%	35
Charpy Impact Strength (notched)	ISO 179-1, 179-2	KJ/m ²	6.5
Water Absorption(23°C,50%RH)	ISO 62	%	0.2
Flammability	UL94		HB
Mold Shrinkage (3mm ^t ,4in disk)		%	1.8-2.2
Heat Deflection Temperature 1.80 MPa	ISO 75-1,-2	°C	103
Linear Expansion Factor	ISO 11359-2	x10 ⁻⁵ /°C	12
Melting Point	ISO 11357-3	°C	165
Volume Resistivity	IEC 60093	Ω.cm	1x10 ¹⁴
Surface Resistivity	IEC 60093	Ω	1x10 ¹⁶
Dielectric Breakdown Strength (2mm)	IEC60243-1	kV/mm	19

Note: The details given in this data sheet are our standard value but not specification guaranteed.

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