

Manufacturer: FORMOSA POLYCHEM CORPORATION



FORMOSACON® FM090 (POM)

Characteristics: Standard flow, minimal mould

Application: Buttons, electronic parts, automotive parts, household, bearing.

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 ^t , 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 °Cx10 ⁻⁵	ASTM D696	8.45
Melting Point	°C	ASTM DSC	165
Vicat Softening Temperature	°C	ASTM D1525	162
Volume Resistivity 23°C 50% RH	Ωcm	ASTM D257	1x10 ¹⁴
Surface Resistivity 23°C 50% RH	Ω	ASTM D257	1x10 ¹⁶

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