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/cm²	ASTM D790	**950**
Flexural Modulus	Kgf/cm²	ASTM D790	**26000**
Tensile Strength at yield point	Kgf/cm²	ASTM D638	**620**
Tensile Elongation at break point	%	ASTM D638	**60**
Izod Impact Strength	Kgf/cm²	ASTM D256	**6.5**
Compressive Stress 1% deformation	Kgf/cm²	ASTM D695	**320**
Stress 10% deformation	Kgf/cm²	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/cm²	°C	ASTM D648	**110**
Heat Deflection Temperature 4.6 Kgf/cm²	°C	ASTM D648	**158**
Linear Expansion Factor	Cm/cm °C$x10^{-5}$	ASTM D696	**8.45**
Melting Point	°C	ASTM DSC	**165**
Vicat Softing Temperature	°C	ASTM D1525	**162**
Volume Resistivity 23°C 50% RH	Ω.cm	ASTM D257	**$1x10^{14}$**
Surface Resistivity 23°C 50% RH	Ω	ASTM D257	**$1x10^{16}$**

Note: above data are shown for reference only

FORMOSA POLYCHEM CORPORATION