

FORMOSACON[®] FM450

Acetal Co-Polymer

Technical Data

Characteristics: Super high-flow.

Application: Press-in fasteners, zippers, gears, electronic parts.

General property	Unit	Test Method	FM450
MI value	g/10 min	ASTM D1238	45
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	35
Izod Impact Strength	Kgf/cm ²	ASTM D256	4.5
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	--
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 °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	Ω.cm	ASTM D257	1x10¹⁴
Surface Resistivity 23°C 50% RH	Ω	ASTM D257	1x10¹⁶

Note: above data are shown for reference only



FORMOSA POLYCHEM CORPORATION