

# FORMOSACON<sup>®</sup> FM270

## Acetal Co-Polymer

### Technical Data

**Characteristics:** High flow.

**Application:** Zipper, electronic parts, press-in fasteners, gears.

General property	Unit	Test Method	FM270
MI value	g/10 min	ASTM D1238	<b>27</b>
Specific Gravity		ASTM D792	<b>1.41</b>
Rockwell Hardness	MScale	ASTM D785	<b>80</b>
Flexural Strength	Kgf/cm <sup>2</sup>	ASTM D790	<b>950</b>
Flexural Modulus	Kgf/cm <sup>2</sup>	ASTM D790	<b>26000</b>
Tensile Strength at yield point	Kgf/cm <sup>2</sup>	ASTM D638	<b>620</b>
Tensile Elongation at break point	%	ASTM D638	<b>45</b>
Izod Impact Strength	Kgf/cm <sup>2</sup>	ASTM D256	<b>5.4</b>
Compressive Stress 1% deformation	Kgf/cm <sup>2</sup>	ASTM D695	<b>320</b>
Stress 10% deformation	Kgf/cm <sup>2</sup>	ASTM D695	<b>1100</b>
Water absorption 23 °C (69%) RH	%	ASTM D570	<b>0.22</b>
Flammability (UL 94)		UL94	<b>HB</b>
Mold Shrinkage (3 mm <sup>†</sup> , 4in disk)	%		<b>1.8 / 2.2</b>
Heat Deflection Temperature 18.6 Kgf/cm <sup>2</sup>	°C	ASTM D648	<b>110</b>
Heat Deflection Temperature 4.6 Kgf/cm <sup>2</sup>	°C	ASTM D648	<b>158</b>
Linear Expansion Factor	Cm/cm °Cx10 <sup>-5</sup>	ASTM D696	<b>8.45</b>
Melting Point	°C	ASTM DSC	<b>165</b>
Vicat Softening Temperature	°C	ASTM D1525	<b>162</b>
Volume Resistivity 23°C 50% RH	Ω.cm	ASTM D257	<b>1x10<sup>14</sup></b>
Surface Resistivity 23°C 50% RH	Ω	ASTM D257	<b>1x10<sup>16</sup></b>

Note: above data are shown for reference only



FORMOSA POLYCHEM CORPORATION