

FORMOCON[®] 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 | 27 |
| 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 | 45 |
| Izod Impact Strength | Kgf/cm ² | ASTM D256 | 5.4 |
| 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 °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