

## Isoflon PVDF Polyvinylidene fluoride

Category : Polymer , Thermoplastic , Fluoropolymer , PVDF , Polyvinylidene fluoride (PVDF), Molded/Extruded

### Material Notes:

Electrical and thermal insulating products with food slipping properties Chemically inert Information provided by Isoflon.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Isoflon-PVDF-Polyvinylidene-fluoride.php](http://www.lookpolymers.com/polymer_Isoflon-PVDF-Polyvinylidene-fluoride.php)

| Physical Properties | Metric    | English   | Comments  |
|---------------------|-----------|-----------|-----------|
| Specific Gravity    | 1.75 g/cc | 1.75 g/cc | DIN 53479 |
| Water Absorption    | 0.030 %   | 0.030 %   | ASTM D570 |

| Mechanical Properties | Metric   | English  | Comments  |
|-----------------------|----------|----------|-----------|
| Hardness, Rockwell R  | 115      | 115      | ASTM D785 |
| Tensile Strength      | 45.0 MPa | 6530 psi | DIN 53455 |
| Elongation at Break   | 150 %    | 150 %    | DIN 53455 |
| Tensile Modulus       | 1.70 GPa | 247 ksi  | DIN 53457 |

| Thermal Properties                          | Metric                               | English                                 | Comments              |
|---------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------|
| CTE, linear                                 | 120 $\mu\text{m/m-}^{\circ}\text{C}$ | 66.7 $\mu\text{in/in-}^{\circ}\text{F}$ | DIN 52328             |
| Thermal Conductivity                        | 0.170 W/m-K                          | 1.18 BTU-in/hr-ft $^{\circ}\text{F}$    | DIN 52612             |
| Melting Point                               | 165 - 178 $^{\circ}\text{C}$         | 329 - 352 $^{\circ}\text{F}$            | DIN 53736             |
| Maximum Service Temperature, Air            | 150 $^{\circ}\text{C}$               | 302 $^{\circ}\text{F}$                  | Continuous; DIN 52612 |
| Deflection Temperature at 1.8 MPa (264 psi) | 90.0 $^{\circ}\text{C}$              | 194 $^{\circ}\text{F}$                  |                       |
| Minimum Service Temperature, Air            | -60.0 $^{\circ}\text{C}$             | -76.0 $^{\circ}\text{F}$                | Continuous; DIN 52612 |

| Electrical Properties | Metric                    | English                   | Comments  |
|-----------------------|---------------------------|---------------------------|-----------|
| Volume Resistivity    | 1.00e+14 ohm-cm           | 1.00e+14 ohm-cm           | DIN 53482 |
| Dielectric Constant   | 7.8<br>@Frequency 1000 Hz | 7.8<br>@Frequency 1000 Hz | DIN 53483 |
| Dielectric Strength   | 18.0 - 50.0 kV/mm         | 457 - 1270 kV/in          | DIN 53481 |

| Descriptive Properties | Value  | Comments |
|------------------------|--------|----------|
| Color                  | Opaque |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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