

Guarniflon FEP Fluorinated Ethylene Propylene

Category : Polymer , Thermoplastic , Fluoropolymer , FEP

Material Notes:

Fluorinated thermoplastic material with excellent thermal, electrical and chemical inertness properties. Widely used for different industrial applications for its excellent chemical resistance up to 200°C. The most common format being, skived film, it can be used as non-stick material in the compression moulding processes, or melting material between fluorinated resins. Information provided by Guarniflon®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Guarniflon-FEP-Fluorinated-Ethylene-Propylene.php

| Physical Properties | Metric | English | Comments |
|---------------------|------------------|------------------------------------|-----------|
| Density | 2.14 - 2.17 g/cc | 0.0773 - 0.0784 lb/in ³ | ASTM D792 |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|-------------|-------------|------------|
| Hardness, Shore D | 57 - 62 | 57 - 62 | ASTM D2240 |
| Tensile Strength | >= 25.0 MPa | >= 3630 psi | ASTM D638 |
| Elongation at Break | >= 350 % | >= 350 % | ASTM D638 |

| Thermal Properties | Metric | English | Comments |
|----------------------|----------------------|-------------------------|----------------------------|
| CTE, linear | 80.0 - 100 Åµm/m-Å°C | 44.4 - 55.6 Åµin/in-Å°F | 25Å°C to 100Å°C; ASTM D696 |
| Thermal Conductivity | 0.240 W/m-K | 1.67 BTU-in/hr-ftÅ²-Å°F | ASTM D177 |
| Melting Point | 260 - 270 Å°C | 500 - 518 Å°F | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-------------------|-----------------|-----------|
| Dielectric Strength | 20.0 - 30.0 kV/mm | 508 - 762 kV/in | ASTM D149 |

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