

3M Dyneon™ TFM™ 4105 Modified PTFE, 25% Glass Fiber Filled (discontinued **)

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE , Polytetrafluoroethylene (PTFE), Glass Filled, Molded

Material Notes:

Type II PTFE. Applications include valve seats, bearings, seals/gaskets, moldings, piston rings. Data provided by Dyneon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-TFM-4105-Modified-PTFE-25-Glass-Fiber-Filled-nbspdiscontinued-.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-----------------------------------|-----------------------------------|-------------------------------------|
| Density | 2.24 g/cc | 0.0809 lb/in ³ | Sintered moldings; ASTM D4894/D4895 |
| Apparent Bulk Density | 0.820 g/cc | 0.0296 lb/in ³ | DIN 53 466 |
| Linear Mold Shrinkage | 0.023 cm/cm @Thickness 80.0 mm | 0.023 in/in @Thickness 3.15 in | sheet; ASTM D4894 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|--------------------------------|----------------------------------|------------|
| Hardness, Shore D | 63 | 63 | ASTM D2240 |
| Tensile Strength, Ultimate | 16.0 MPa @Thickness 2.00 mm | 2320 psi @Thickness 0.0787 in | ASTM D4894 |
| Elongation at Break | 400 % @Thickness 2.00 mm | 400 % @Thickness 0.0787 in | ASTM D4894 |

| Thermal Properties | Metric | English | Comments |
|-------------------------------|--|--|------------|
| CTE, linear, Parallel to Flow | 90.0 μm/m-°C @Temperature 30.0 - 100 °C | 50.0 μin/in-°F @Temperature 86.0 - 212 °F | |
| | 110 μm/m-°C @Temperature 30.0 - 200 °C | 61.1 μin/in-°F @Temperature 86.0 - 392 °F | |
| | 130 μm/m-°C @Temperature 30.0 - 300 °C | 72.2 μin/in-°F @Temperature 86.0 - 572 °F | |
| Thermal Conductivity | 0.400 W/m-K | 2.78 BTU-in/hr-ft ² -°F | DIN 52 612 |

| Electrical Properties | Metric | English | Comments |
|------------------------|-----------------|-----------------|-----------|
| Electrical Resistivity | 1.00e+14 ohm-cm | 1.00e+14 ohm-cm | IEC 60093 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|---------------------------|---------------------------|-----------|
| Surface Resistance | 1.00×10^{14} ohm | 1.00×10^{14} ohm | IEC 60093 |

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