

Mikro-Technik Reproflon PTFE

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE

Material Notes:

Reproflon is reclaimed PTFE scraps. The powder can be reused for the usual manufacturing procedures. Information provided by Mikro-Technik GmbH

Order this product through the following link:

http://www.lookpolymers.com/polymer_Mikro-Technik-Reproflon-PTFE.php

| Physical Properties | Metric | English | Comments |
|---------------------|------------------|------------------------------------|--------------|
| Density | 2.16 - 2.20 g/cc | 0.0780 - 0.0795 lb/in ³ | ASTM D792-50 |
| Crystallinity | 60 - 85 % | 60 - 85 % | X-ray |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-----------------|-----------------|------------|
| Hardness, Shore D | 55 - 59 | 55 - 59 | DIN 53 505 |
| Ball Indentation Hardness | 30.5 MPa | 4420 psi | DIN 53 456 |
| Tensile Strength, Yield | 10.3 - 22.5 MPa | 1490 - 3260 psi | ISO/R 527E |
| Elongation at Break | 75 - 150 % | 75 - 150 % | ISO/R 527 |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|----------|----------|----------|
| Maximum Service Temperature, Air | 250 Å°C | 482 Å°F | |
| Minimum Service Temperature, Air | -200 Å°C | -328 Å°F | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------------------|--------------------|--------------|
| Volume Resistivity | 1.00e+17 ohm-cm | 1.00e+17 ohm-cm | DIN 53 482 |
| Surface Resistance | 1.00e+16 ohm | 1.00e+16 ohm | DIN 53 482 |
| Dielectric Constant | 2.1 | 2.1 | DIN 53 483 |
| | @Frequency 50 Hz | @Frequency 50 Hz | |
| | 2.1 | 2.1 | |
| | @Frequency 1000 Hz | @Frequency 1000 Hz | DIN 53 483 |
| | 2.1 | 2.1 | DIN 53 483 |
| | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz | |
| Dielectric Strength | 20.0 - 40.0 kV/mm | 508 - 1020 kV/in | ASTM D149/15 |

| Electrical Properties | 0.0010 Metric | 0.0010 English | Comments |
|-----------------------|--------------------|--------------------|-----------------------|
| | @Frequency 50 Hz | @Frequency 50 Hz | DIN 53 483 |
| | 0.0010 | 0.0010 | tan delta; DIN 53 483 |
| | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz | |
| | 0.0010 | 0.0010 | DIN 53 483 |
| | @Frequency 1000 Hz | @Frequency 1000 Hz | |

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