

Isoflon PTFE + 15% Graphite Polytetrafluoroethylene with 15% Graphite

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE , Polytetrafluoroethylene (PTFE), Conductive Carbon Filled

Material Notes:

Properties: Good thermal conductivity, Low coefficient of friction, Low permeability. Applications: Non-lubricated dynamic seals. Information provided by Isoflon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Isoflon-PTFE-15-Graphite-Polytetrafluoroethylene-with-15-Graphite.php

| Physical Properties | Metric | English | Comments |
|---------------------|------------------------------------|------------------------------------|--|
| Specific Gravity | 2.14 - 2.19 g/cc | 2.14 - 2.19 g/cc | ASTM D792 |
| Deformation | 5.0 - 6.0 % | 5.0 - 6.0 % | Permanent, after Relaxation; ASTM D695 |
| | @Time 86400 sec | @Time 24.0 hour | |
| | 10 - 12 % | 10 - 12 % | Under Load; ASTM D695 |
| | @Time 86400 sec, Pressure 13.7 MPa | @Time 24.0 hour, Pressure 1990 psi | |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|-----------------|-----------------|------------|
| Hardness, Shore D | 55 - 60 | 55 - 60 | ASTM D2240 |
| Tensile Strength | 18.0 - 23.0 MPa | 2610 - 3340 psi | ASTM D4894 |
| Elongation at Break | 200 - 250 % | 200 - 250 % | ASTM D4894 |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|----------|----------|----------|
| Maximum Service Temperature, Air | 260 Â°C | 500 Â°F | |
| Minimum Service Temperature, Air | -200 Â°C | -328 Â°F | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|----------------|----------------|-----------|
| Volume Resistivity | 1.00e+7 ohm-cm | 1.00e+7 ohm-cm | ASTM D257 |

| Descriptive Properties | Value | Comments |
|---------------------------|----------------------------------|----------|
| Ageing and Weatherability | Stable over 20 years of exposure | |

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