

Goodfellow TPX® DX310 Coating/Extrusion Grade Polymethylpentene

Category : Polymer , Thermoplastic , Polymethylpentene (PMP) , Polymethylpentene, Molded

Material Notes:

This grade is highly recommended for paper coating or for fiber extrusion. TPX® is semi-crystalline, transparent, very light and - for a polyolefin - expensive. It has good release characteristics and good high frequency electrical and valuable acoustic/ultrasonic properties. Applications include medical and laboratory apparatus, microwave components and cookware and electronic components. Information provided by Goodfellow. TPX® is a trademark of Mitsui.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Goodfellow-TPX-DX310-CoatingExtrusion-Grade-Polymethylpentene.php

| Physical Properties | Metric | English | Comments |
|---------------------|--|--|------------|
| Density | 0.833 g/cc | 0.0301 lb/in ³ | ASTM D1505 |
| Water Absorption | <= 0.010 % | <= 0.010 % | ASTM D570 |
| Melt Flow | 100 g/10 min @Load 5.00 kg, Temperature 260 °C | 100 g/10 min @Load 11.0 lb, Temperature 500 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|------------------------------|-----------------------|----------------------------|-----------|
| Hardness, Rockwell R | 42 | 42 | ASTM D785 |
| Tensile Strength | 10.0 MPa | 1450 psi | ASTM D638 |
| Tensile Strength, Yield | 20.0 MPa | 2900 psi | ASTM D638 |
| Elongation at Break | 40 % | 40 % | ASTM D638 |
| Tensile Modulus | 0.820 GPa | 119 ksi | ASTM D638 |
| Flexural Strength | 21.0 MPa | 3050 psi | ASTM D790 |
| Flexural Modulus | 0.630 GPa | 91.4 ksi | ASTM D790 |
| Izod Impact, Notched | 0.250 J/cm | 0.468 ft-lb/in | ASTM D256 |
| Izod Impact, Unnotched (ISO) | 127 kJ/m ² | 60.4 ft-lb/in ² | |

| Thermal Properties | Metric | English | Comments |
|---|-------------|----------------|---------------------|
| CTE, linear | 117 µm/m-°C | 65.0 µin/in-°F | ASTM E831 |
| Melting Point | 223 °C | 433 °F | DSC Peak; JIS K7121 |
| Deflection Temperature at 0.46 MPa (66 psi) | 80.0 °C | 176 °F | ASTM D648 |

| Vicat Softening Point Thermal Properties | 147 °C Metric | 297 °F English | ASTM D1525 Comments |
|---|------------------|-------------------|------------------------|
|---|------------------|-------------------|------------------------|

| Optical Properties | Metric | English | Comments |
|-----------------------|--------|---------|------------|
| Refractive Index | 1.46 | 1.46 | ASTM D542 |
| Haze | 2.1 % | 2.1 % | ASTM D1003 |
| Transmission, Visible | 93 % | 93 % | ASTM D1003 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------------------------|-----------------------------------|-----------|
| Volume Resistivity | $\geq 1.00 \times 10^{16}$ ohm-cm | $\geq 1.00 \times 10^{16}$ ohm-cm | ASTM D257 |
| Dielectric Constant | 2.1 | 2.1 | ASTM D150 |
| Dielectric Strength | 65.0 kV/mm | 1650 kV/in | ASTM D149 |

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