

Asahi Kasei Xyron® 500V Modified Polyphenylene Ether

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polyphenylene Ether, Heat Resistant

Material Notes:

Flame Retardant Information provided by Asahi Kasei

Order this product through the following link:

http://www.lookpolymers.com/polymer_Asahi-Kasei-Xyron-500V-Modified-Polyphenylene-Ether.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-----------------------|-----------------------|----------------------------------|
| Specific Gravity | 1.08 g/cc | 1.08 g/cc | 23°C; ASTM D792 |
| Moisture Absorption | 0.100 % | 0.100 % | 23°C, 50% RH 24 hours; ASTM D570 |
| Linear Mold Shrinkage | 0.0050 - 0.0070 cm/cm | 0.0050 - 0.0070 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|--|---|-------------------------|
| Tensile Strength, Yield | 54.0 MPa | 7830 psi | 23°C, 50% RH; ASTM D638 |
| Elongation at Break | 40 % | 40 % | 23°C, 50% RH; ASTM D638 |
| Flexural Strength | 78.0 MPa | 11300 psi | 23°C, 50% RH; ASTM D790 |
| Flexural Modulus | 2.40 GPa | 348 ksi | 23°C, 50% RH; ASTM D790 |
| Izod Impact, Notched | 1.47 J/cm | 2.75 ft-lb/in | ASTM D256 |
| | @Thickness 6.40 mm, Temperature 23.0 °C | @Thickness 0.252 in, Temperature 73.4 °F | |
| | 1.96 J/cm | 3.67 ft-lb/in | ASTM D256 |
| | @Thickness 3.20 mm, Temperature 23.0 °C | @Thickness 0.126 in, Temperature 73.4 °F | |

| Thermal Properties | Metric | English | Comments |
|--|---------------------------------|--------------------------------|-----------|
| CTE, linear | 70.0 µm/m-°C | 38.9 µin/in-°F | ASTM D696 |
| | @Temperature -30.0 - 60.0 °C | @Temperature -22.0 - 140 °F | |
| Deflection Temperature at 1.8 MPa (264 psi) | 120 °C | 248 °F | ASTM D648 |
| Flammability, UL94 | V-1 | V-1 | |
| | @Thickness 1.60 mm | @Thickness 0.0630 in | |
| | V-1 | V-1 | |
| | @Thickness 3.20 mm | @Thickness 0.126 in | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------------------|----------------------|-----------------------|
| Volume Resistivity | 1.00e+16 ohm-cm | 1.00e+16 ohm-cm | 50% RH; ASTM D257 |
| Surface Resistance | 1.00e+16 ohm | 1.00e+16 ohm | 50% RH; ASTM D257 |
| Dielectric Constant | 2.9 | 2.9 | 50% RH; ASTM D150 |
| | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz | |
| Dielectric Strength | 25.0 kV/mm | 635 kV/in | Short time; ASTM D149 |
| | @Thickness 2.00 mm | @Thickness 0.0787 in | |
| Dissipation Factor | 0.0030 | 0.0030 | 50% RH; ASTM D150 |
| | @Frequency 60 Hz | @Frequency 60 Hz | |
| Arc Resistance | 0.0040 | 0.0040 | 50% RH; ASTM D150 |
| | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz | |
| Arc Resistance | 70 sec | 70 sec | Tungsten; ASTM D495 |

| Processing Properties | Metric | English | Comments |
|------------------------|----------------|--------------|------------------------|
| Processing Temperature | 240 - 270 °C | 464 - 518 °F | Resin Temperature |
| Mold Temperature | 50.0 - 80.0 °C | 122 - 176 °F | |
| Drying Temperature | 90.0 - 100 °C | 194 - 212 °F | Pre-drying Temperature |
| Dry Time | 2 - 4 hour | 2 - 4 hour | |

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