

Xyron™ X1509

PPE-X10

Asahi Kasei

| Mechanical properties | Value | Unit | Test Standard |
|---------------------------------------|--------------|-------------------|----------------------|
| ISO Data | | | |
| Tensile Strength | 54 | MPa | ISO 527 |
| Flexural modulus, 23°C | 3600 | MPa | ISO 178 |
| Flexural strength | 95 | MPa | ISO 178 |
| Charpy notched impact strength, +23°C | 5 | kJ/m ² | ISO 179/1eA |

| Thermal properties | Value | Unit | Test Standard |
|---|--------------|-------------|----------------------|
| ISO Data | | | |
| Temp. of deflection under load, 1.80 MPa | 97 | °C | ISO 75-1/-2 |
| Coeff. of linear therm. expansion, parallel | 60 | E-6/K | ISO 11359-1/-2 |
| Burning behav. at 1.5 mm nom. thickn. | V-1 | class | IEC 60695-11-10 |
| Thickness tested | 1.6 | mm | - |
| ASTM Data | | | |
| DTUL @ 264 psi | 100 | °C | ASTM D 648 |

| Electrical properties | Value | Unit | Test Standard |
|------------------------------|--------------|-------------|----------------------|
| ISO Data | | | |
| Relative permittivity, 100Hz | 3.1 | - | IEC 62631-2-1 |
| Relative permittivity, 1MHz | 3 | - | IEC 62631-2-1 |
| Dissipation factor, 100Hz | 20 | E-4 | IEC 62631-2-1 |
| Dissipation factor, 1MHz | 30 | E-4 | IEC 62631-2-1 |
| Volume resistivity | 1E14 | Ohm*m | IEC 62631-3-1 |
| Surface resistivity | 1E16 | Ohm | IEC 62631-3-2 |

| Other properties | Value | Unit | Test Standard |
|-------------------------|--------------|-------------------|----------------------|
| Density | 1150 | kg/m ³ | ISO 1183 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|--|------------------|-------------|----------------------|
| Pre-drying - Temperature | 90 - 100 | °C | - |
| Pre-drying - Time | 2 - 4 | h | - |
| Melt temperature | 240 - 300 | °C | - |
| Mold temperature | 50 - 80 | °C | - |

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Features

Low Warpage