

Kotex K-20UV

Polycarbonate
Kotec Corporation

Message:

Kotex K-20UV is a Polycarbonate (PC) product. It can be processed by injection molding and is available in Asia Pacific or Europe.
Characteristics include:
Flame Rated
Good UV Resistance
High Flow
UV Stabilized

| General Information | | | |
|---|--------------------|-------------------|-------------|
| UL YellowCard | E146413-100218313 | | |
| Additive | UV Stabilizer | | |
| Features | General Purpose | | |
| | Good UV Resistance | | |
| | High Flow | | |
| Uses | General Purpose | | |
| Appearance | Clear/Transparent | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.20 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (300°C/1.2 kg) | 20 | g/10 min | ASTM D1238 |
| Molding Shrinkage - Flow | 0.50 to 0.70 | % | ASTM D955 |
| Water Absorption (23°C, 24 hr) | < 0.20 | % | ASTM D570 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Break) | 63.0 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 120 | % | ASTM D638 |
| Flexural Modulus | 2160 | MPa | ASTM D790 |
| Flexural Strength | 85.0 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C, 3.18 mm) | 740 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 131 | °C | ASTM D648 |
| Electrical | Nominal Value | Unit | Test Method |
| Volume Resistivity | 1.0E+16 | ohms · cm | ASTM D257 |
| Dielectric Strength (1.60 mm) | 20 | kV/mm | ASTM D149 |
| Dielectric Constant (1 MHz) | 2.90 | | ASTM D150 |
| Dissipation Factor (1 MHz) | 9.0E-3 | | ASTM D150 |

| | | | |
|-------------------------|---------------|------|-------------|
| Arc Resistance | 110 | sec | ASTM D495 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (0.400 mm) | V-2 | | UL 94 |
| Optical | Nominal Value | Unit | Test Method |
| Refractive Index | 1.580 | | ASTM D542 |
| Transmittance (3000 μm) | 89.0 | % | ASTM D1003 |
| Haze (3000 μm) | < 1.0 | % | ASTM D1003 |

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