

ULTEM™ RESIN 2210F

REGION AMERICAS

DESCRIPTION

20% Glass fiber filled, enhanced flow Polyetherimide (Tg 217C). ECO Conforming. US FDA Food Contact compliant in recognized colors.

TYPICAL PROPERTY VALUES

Revision 20180524

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|--|----------------|-------------------|--------------|
| MECHANICAL | | | |
| Tensile Stress, yld, Type I, 5 mm/min | 139 | MPa | ASTM D 638 |
| Tensile Stress, brk, Type I, 5 mm/min | 140 | MPa | ASTM D 638 |
| Tensile Strain, yld, Type I, 5 mm/min | 2 | % | ASTM D 638 |
| Tensile Modulus, 5 mm/min | 6890 | MPa | ASTM D 638 |
| Flexural Stress, yld, 1.3 mm/min, 50 mm span | 227 | MPa | ASTM D 790 |
| Flexural Modulus, 1.3 mm/min, 50 mm span | 6890 | MPa | ASTM D 790 |
| Tensile Stress, yield, 5 mm/min | 140 | MPa | ISO 527 |
| Tensile Stress, break, 5 mm/min | 140 | MPa | ISO 527 |
| Tensile Strain, yield, 5 mm/min | 2 | % | ISO 527 |
| Tensile Strain, break, 5 mm/min | 2 | % | ISO 527 |
| Tensile Modulus, 1 mm/min | 6800 | MPa | ISO 527 |
| Flexural Stress, yield, 2 mm/min | 210 | MPa | ISO 178 |
| Flexural Modulus, 2 mm/min | 6500 | MPa | ISO 178 |
| IMPACT | | | |
| Izod Impact, unnotched, 23°C | 475 | J/m | ASTM D 4812 |
| Instrumented Impact Total Energy, 23°C | 13 | J | ASTM D 3763 |
| Izod Impact, notched 80*10*4 +23°C | 5 | kJ/m ² | ISO 180/1A |
| Izod Impact, notched 80*10*4 -30°C | 5 | kJ/m ² | ISO 180/1A |
| Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm | 8 | kJ/m ² | ISO 179/1eA |
| THERMAL | | | |
| Vicat Softening Temp, Rate B/50 | 226 | °C | ASTM D 1525 |
| HDT, 1.82 MPa, 6.4 mm, unannealed | 211 | °C | ASTM D 648 |
| Vicat Softening Temp, Rate B/50 | 212 | °C | ISO 306 |
| Vicat Softening Temp, Rate B/120 | 218 | °C | ISO 306 |
| PHYSICAL | | | |
| Density | 1.42 | g/cm ³ | ISO 1183 |

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|-------------------------------------|----------------|-------|--------------|
| Water Absorption, (23°C/sat) | 1 | % | ISO 62 |
| Moisture Absorption (23°C / 50% RH) | 0.55 | % | ISO 62 |

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