

Arnitel[®] EM460/U

TPC-ET

Injection Molding or Extrusion Grade

Print Date: 2024-03-27

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|--|--------------|------------------------|-------------------|
| RHEOLOGICAL PROPERTIES | | VALUE | |
| Melt volume-flow rate | 50 | cm ³ /10min | ISO 1133 |
| Temperature | 230 | °C | ISO 1133 |
| Load | 2.16 | kg | ISO 1133 |
| Molding shrinkage [parallel] | 1.25 | % | Sim. to ISO 294-4 |
| Molding shrinkage [normal] | 1.5 | % | Sim. to ISO 294-4 |
| MECHANICAL PROPERTIES | | VALUE | |
| Shore D Hardness (3s) | 43 | — | ISO 868 |
| Tensile modulus | 82 | MPa | ISO 527-1/-2 |
| Yield stress | 9 | MPa | ISO 527-1/-2 |
| Yield strain | 45 | % | ISO 527-1/-2 |
| Stress at break | 18 | MPa | ISO 527-1/-2 |
| Nominal strain at break | 500 | % | ISO 527-1/-2 |
| Stress at 5% strain | 3.2 | MPa | ISO 527-1/-2 |
| Stress at 10% strain | 5.6 | MPa | ISO 527-1/-2 |
| Stress at 50% strain | 8.2 | MPa | ISO 527-1/-2 |
| Stress at 100% strain | 8.3 | MPa | ISO 527-1/-2 |
| Charpy notched impact strength (+23°C) | N | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength (-30°C) | N | kJ/m ² | ISO 179/1eA |
| Izod notched impact strength (+23°C) | N | kJ/m ² | ISO 180/1A |
| Izod notched impact strength (-20°C) | N | kJ/m ² | ISO 180/1A |

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| THERMAL PROPERTIES | | VALUE | |
| Melting temperature (10°C/min) | 189 | °C | ISO 11357-1/-3 |
| Coeff. of linear therm. expansion (parallel) | 1.6 | E-4/°C | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion (normal) | 1.6 | E-4/°C | ISO 11359-1/-2 |
| ELECTRICAL PROPERTIES | | VALUE | |
| Relative permittivity (1 MHz) | 4.4 | — | IEC 62631-2-1 |
| Dissipation factor (1 MHz) | 350 | E-4 | IEC 62631-2-1 |
| Volume resistivity | 1E11 | Ohm*m | IEC 62631-3-1 |
| OTHER PROPERTIES | | VALUE | |
| Density | 1150 | kg/m³ | ISO 1183 |
| Water absorption | 0.7 | % | Sim. to ISO 62 |
| Humidity absorption | 0.3 | % | Sim. to ISO 62 |

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