



Technical Datasheet: PC 2447

Product Description:

PC 2447 is a Polycarbonate resin featuring good flow properties.

Applications:

Injection molded technical items.

Typical data:

| PROPERTY | TEST METHOD | UNIT | TYPICAL VALUE |
|--|-----------------|------------------------|---------------|
| Melt volume-flow rate, MVR | ISO 1133 | cm ³ /10min | 19 |
| Temperature | ISO 1133 | °C | 300 |
| Load | ISO 1133 | kg | 1.2 |
| Molding shrinkage, parallel | ISO 294-4,2577 | % | 0.7 |
| Molding shrinkage, normal | ISO 294-4,2577 | % | 0.7 |
| Tensile Modulus | ISO 527-1/-2 | MPa | 2400 |
| Yield stress | ISO 527-1/-2 | MPa | 66 |
| Yield strain | ISO 527-1/-2 | % | 6 |
| Nominal strain at break | ISO 527-1/-2 | % | >50 |
| Tensile creep modulus, 1h | ISO 899-1 | MPa | 2200 |
| Tensile creep modulus, 1000h | ISO 899-1 | MPa | 1900 |
| Charpy impact strength, +23°C | ISO 179/1eU | kJ/m ² | N |
| Charpy impact strength, -30°C | ISO 179/1eU | kJ/m ² | N |
| Puncture- maximum force, +23°C | ISO 6603-2 | N | 5100 |
| Puncture- maximum force, -30°C | ISO 6603-2 | N | 6000 |
| Puncture- energy, +23°C | ISO 6603-2 | J | 55 |
| Puncture- energy, -30°C | ISO 6603-2 | J | 65 |
| Glass transition temperature,10 °C/min | ISO 11357-1/-2 | °C | 145 |
| Temp. of deflection under load, 1.80 MPa | ISO 75-1/-2 | °C | 125 |
| Temp. of deflection under load, 0.45 MPa | ISO 75-1/-2 | °C | 138 |
| Vicat softening temperature, 50 °C/h 50N | ISO 306 | °C | 144 |
| Coeff. Of liner therm. Expansion, parallel | ISO 11359-1/-2 | E-6/K | 65 |
| Coeff. Of liner therm. Expansion, normal | ISO 11359-1/-2 | E-6/K | 65 |
| Burning Behav, at thickness h | IEC 60695-11-10 | Class | V-2 |
| Thickness tested | IEC 60695-11-10 | mm | 0.8 |
| UL recognition | - | - | UL |
| Oxygen index | ISO 4589-1/-2 | % | 28 |
| Relative permittivity, 100Hz | IEC 60250 | - | 3.1 |
| Relative permittivity, 1MHz | IEC 60250 | - | 3 |
| Dissipation factor, 100Hz | IEC 60250 | E-4 | 5 |
| Dissipation factor, 1MHz | IEC 60250 | E-4 | 90 |
| Volume resistivity | IEC 60093 | Ohm*m | >1E13 |
| Surface resistivity | IEC 60093 | Ohm | >1E15 |
| Electric strength | IEC 60243-1 | kV/mm | 34 |

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We win first, then start the challenge!

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|---------------------------------------|----------------|-------------------|-------|
| Comparative tracking index | IEC 60112 | - | 250 |
| Water absorption | Sim. To ISO62 | % | 0.3 |
| Humidity absorption | Sim. To ISO62 | % | 0.12 |
| Density | ISO 1183 | Kg/m ³ | 1200 |
| Luminous transmittance | ISO 13468-1,-2 | % | 89 |
| Density of melt | - | Kg/m ³ | 1020 |
| Thermal conductivity of melt | - | w/(m k) | 0.214 |
| Spec. heat capacity of melt | - | J/(kg k) | 2100 |
| Eff. Thermal diffusivity | - | M ² /s | 1E-7 |
| Ejection temperature | - | °C | 130 |
| Injection molding, melt temperature | ISO 294 | °C | 280 |
| Injection molding, mold temperature | ISO 10724 | °C | 80 |
| Injection molding, injection velocity | ISO 294 | mm/s | 200 |

* Typical values not to be construed as specifications.cm