

Product Texts

Common features of Rynite® thermoplastic polyester include mechanical and physical properties such as excellent balance of strength and stiffness, dimensional stability, creep resistance, heat resistance, high surface gloss and good inherent electrical properties at elevated temperature. It can be processed over a broad temperature range and has excellent flow properties.

Rynite® thermoplastic polyester resins are typically used in demanding applications in the automotive, electrical and electronics, appliances where they successfully replace metals and thermosets, as well as other thermoplastic polymers.

Rynite® RE5264E NC010 is a 36% glass reinforced, modified polyethylene terephthalate resin developed for applications that need high burst strength.

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|--|-------|------|-----------------|
| ISO Data | | | |
| ^[C] Molding shrinkage, parallel | 0.1 | % | ISO 294-4, 2577 |
| ^[C] Molding shrinkage, normal | 1.0 | % | ISO 294-4, 2577 |
| ^[C] Ejection temperature | 170 | °C | - |

[C]: CAMPUS

| Mechanical properties | Value | Unit | Test Standard |
|--|-------|-------------------|---------------|
| ISO Data | | | |
| ^[C] Tensile Modulus | 14000 | MPa | ISO 527 |
| ^[C] Stress at break | 200 | MPa | ISO 527 |
| ^[C] Strain at break | 2.4 | % | ISO 527 |
| ^[C] Charpy impact strength, +23°C | 60 | kJ/m ² | ISO 179/1eU |
| ^[C] Charpy notched impact strength, +23°C | 9.5 | kJ/m ² | ISO 179/1eA |

[C]: CAMPUS

| Thermal properties | Value | Unit | Test Standard |
|---|-------|------|----------------|
| ISO Data | | | |
| ^[C] Melting temperature, 10°C/min | 247 | °C | ISO 11357-1/-3 |
| ^[C] Temp. of deflection under load, 1.80 MPa | 230 | °C | ISO 75-1/-2 |

[C]: CAMPUS

| Electrical properties | Value | Unit | Test Standard |
|----------------------------------|-------|-------|---------------|
| ISO Data | | | |
| ^[C] Electric strength | 21.5 | kV/mm | IEC 60243-1 |

[C]: CAMPUS

| Other properties | Value | Unit | Test Standard |
|------------------------|-------|-------------------|---------------|
| ^[C] Density | 1660 | kg/m ³ | ISO 1183 |

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Additives

Release agent

Delivery form

Pellets, Natural Color

Regional Availability

Europe