

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® RE15022 NC010 is a 36% glass reinforced modified polyethylene terephthalate resin developed for applications that need high burst strength and fast cycle performance.

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	70	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	11	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	11	kJ/m ²	ISO 179/1eA

ASTM Data

Tensile Strength	195	MPa	ASTM D 638
Elongation at Break	2.4	%	ASTM D 638
Flexural Modulus	12700	MPa	ASTM D 790
Flexural Strength	305	MPa	ASTM D 790
Izod Impact notched, 1/8 in	110	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	105	J/m	ASTM D 256
Temperature	-40	°C	-

[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	235	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	245	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	20	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	70	E-6/K	ISO 11359-1/-2

ASTM Data

DTUL @ 264 psi	235	°C	ASTM D 648
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[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Density	1650	kg/m ³	ISO 1183
Density	1650	kg/m ³	ASTM D 792

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Delivery form

Pellets, Natural Color