

Rynite® RE5264 NC010

THERMOPLASTIC POLYESTER RESIN

DuPont Transportation & Industrial

PROSPECTOR®

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Technical Data

Product Description

36% Glass Reinforced Polyethylene Terephthalate

General

Material Status	• Commercial: Active
Search for UL Yellow Card	• DuPont Transportation & Industrial • Rynite®
Availability	• Asia Pacific • Latin America • North America
Filler / Reinforcement	• Glass Fiber, 36% Filler by Weight
Additive	• Mold Release
RoHS Compliance	• Contact Manufacturer
Multi-Point Data	• Isothermal Stress vs. Strain (ISO 11403-1) • Secant Modulus vs. Strain (ISO 11403-1)
Part Marking Code (ISO 11469)	• >PET-GF36<
Resin ID (ISO 1043)	• PET-GF36

Physical	Nominal Value Unit	Test Method
Density	1.66 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (280°C/2.16 kg)	9.0 g/10 min	ISO 1133
Molding Shrinkage		
Flow : 3.20 mm	0.15 %	
Across Flow : 3.20 mm	1.1 %	
Across Flow	0.90 %	ISO 294-4
Across Flow : 80°C, 48 hr	0.20 %	ISO 294-4
Flow	0.20 %	ISO 294-4
Flow : 80°C, 48 hr	0.050 %	ISO 294-4

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	14000 MPa	ISO 527-1
Tensile Stress (Break)	190 MPa	ISO 527-2
Tensile Strain (Break)	2.0 %	ISO 527-2
Flexural Modulus	12000 MPa	ISO 178
Flexural Stress	280 MPa	ISO 178
Poisson's Ratio	0.33	

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179/1eA
-40°C	9.0 kJ/m ²	
-30°C	9.0 kJ/m ²	
23°C	9.5 kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	55 kJ/m ²	ISO 179/1eU

Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	120	ISO 2039-2
Ball Indentation Hardness (H 961/30)	225 MPa	ISO 2039-1

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
0.45 MPa, Unannealed	245 °C	ISO 75-2/B
1.8 MPa, Unannealed	230 °C	ISO 75-2/A
Melting Temperature ²	247 °C	ISO 11357-3
CLTE		ISO 11359-2
Flow	2.0E-5 cm/cm/°C	
Transverse	7.0E-5 cm/cm/°C	

Electrical	Nominal Value Unit	Test Method
Electric Strength	22 kV/mm	IEC 60243-1



Flammability	Nominal Value Unit	Test Method
Burning Rate ³ (1.00 mm)	< 80 mm/min	ISO 3795
FMVSS Flammability	B	FMVSS 302
Fill Analysis	Nominal Value Unit	
Ejection Temperature	170 °C	
Injection	Nominal Value Unit	
Drying Temperature	120 °C	
Drying Time - Desiccant Dryer	4.0 to 6.0 hr	
Suggested Max Moisture	< 0.010 %	
Processing (Melt) Temp	280 to 300 °C	
Melt Temperature, Optimum	285 °C	
Mold Temperature	120 to 140 °C	
Mold Temperature, Optimum	140 °C	
Holding Pressure	> 80.0 MPa	
Back Pressure	As low as possible	
Drying Recommended	yes	
Hold Pressure Time	4.00 s/mm	
Maximum Screw Tangential Speed	12 m/min	

Notes

- ¹ Typical properties: these are not to be construed as specifications.
- ² 10°C/min
- ³ FMVSS 302



Where to Buy

Supplier

DuPont Transportation & Industrial

Wilmington, Wilmington USA
Telephone: 302-999-4592
Web: <http://plastics.dupont.com/>

Distributor

Avient Distribution

Avient Distribution is a global distribution company. Contact Avient Distribution for availability of individual products by country.

Telephone: +1-440-930-3004 (USA); +86-21-6028-4805 (China)

Web: <https://now.avient.com/>

Availability: Global

CCC Plastics

Telephone: 800-461-1638

Web: <https://www.ccc-group.com/>

Availability: Canada

