

Technical Data

Product Description

30% Glass Reinforced, Flame Retardant, Polyethylene Terephthalate

General

Material Status	• Commercial: Active
Literature ¹	• Processing - Injection Molding (English) • Typical Processing for DuPont Engineering Polymers (English)
UL Yellow Card ²	• E41938-257735
Search for UL Yellow Card	• DuPont Performance Polymers • Rynite®
Availability	• Africa & Middle East • Europe • Asia Pacific • Latin America • North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Additive	• Mold Release
Agency Ratings	• UL Unspecified Rating
Forms	• Pellets
Processing Method	• Injection Molding
Multi-Point Data	• Isothermal Stress vs. Strain (ISO 11403-1) • Secant Modulus vs. Strain (ISO 11403-1)
Part Marking Code (ISO 11469)	• >PET-GF30FR<
Resin ID (ISO 1043)	• PET-GF30FR(17)

Physical	Nominal Value Unit	Test Method
Density	1.68 g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (280°C/2.16 kg)	6.00 cm ³ /10min	ISO 1133
Molding Shrinkage		ISO 294-4
Across Flow	0.80 %	
Flow	0.20 %	
Water Absorption		ISO 62
23°C, 24 hr, 2.00 mm	0.75 %	
Equilibrium, 23°C, 2.00 mm, 50% RH	0.15 %	

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	11500 MPa	ISO 527-2
Tensile Stress (Break)	135 MPa	ISO 527-2
Tensile Strain (Break)	2.0 %	ISO 527-2
Tensile Creep Modulus		ISO 899-1
1 hr	11200 MPa	
1000 hr	9700 MPa	
Flexural Modulus	10500 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179/1eA
-30°C	9.0 kJ/m ²	
23°C	10 kJ/m ²	
Charpy Unnotched Impact Strength		ISO 179/1eU
-30°C	40 kJ/m ²	
23°C	40 kJ/m ²	

Hardness	Nominal Value Unit	Test Method
Rockwell Hardness		ASTM D785
M-Scale	95	
R-Scale	120	



Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		
0.45 MPa, Unannealed	243 °C	ISO 75-2/B
1.8 MPa, Unannealed	225 °C	ISO 75-2/A
Vicat Softening Temperature	220 °C	ISO 306/B50
Melting Temperature ⁴	252 °C	ISO 11357-3
CLTE		ISO 11359-2
Flow	1.9E-5 cm/cm/°C	
Flow : -40 to 23°C	2.2E-5 cm/cm/°C	
Transverse	9.2E-5 cm/cm/°C	
Transverse : -40 to 23°C	6.8E-5 cm/cm/°C	
RTI Elec		UL 746
0.400 mm	155 °C	
0.750 mm	155 °C	
1.50 mm	155 °C	
Electrical	Nominal Value Unit	Test Method
Surface Resistivity	1.0E+14 ohms	IEC 60093
Volume Resistivity	1.0E+15 ohms·cm	IEC 60093
Electric Strength	33 kV/mm	IEC 60243-1
Dielectric Constant		
1 kHz	3.80	ASTM D150
1 MHz	3.70	ASTM D150
100 Hz	4.80	IEC 60250
1 MHz	4.70	IEC 60250
Dissipation Factor		
1 kHz	1.1E-6	ASTM D150
1 MHz	1.8E-6	ASTM D150
100 Hz	7.0E-3	IEC 60250
1 MHz	0.010	IEC 60250
Comparative Tracking Index (CTI)	PLC 2	UL 746
Comparative Tracking Index	200 V	IEC 60112
Flammability	Nominal Value Unit	Test Method
Flammability Classification		IEC 60695-11-10, -20
0.350 mm	V-0	
1.50 mm	V-0	
	5VA	
Oxygen Index	33 %	ASTM D2863 ISO 4589-2

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

⁴ 10°C/min



Rynite® FR530 NC010

THERMOPLASTIC POLYESTER RESIN

DuPont Performance Polymers

PROSPECTOR®

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Where to Buy

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Wilmington, DE USA

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Distributor

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Availability: Global

