



# Component - Plastics

File Number: E41938

E I DUPONT DE NEMOURS & CO INC

ENGINEERING POLYMERS, CHESTNUT RUN PLAZA, PO BOX 80713, WILMINGTON DE 19880-0713



Rynite: FR530(I)(+)(f1), FR530L(I)(+)(f1)

Polyethylene Terephthalate (PET), pellets, glass reinforced, flame retardant

(+) - Virgin and regrind up to 50% by weight inclusive, have the same basic material characteristics.

(f1) - Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.

(I) - Recognized ground insulation component at 0.4 mm with MW79 in UL1446 Class 155 electrical insulation system designated R201N (File E69939).

NOTE - (1) Material designations that are color pigmented may be followed by suffix letters and numbers. (2) Material designations may be prefixed by "ZYT" for Zytel or "MIN" for Minlon or "DEL" for Delrin or "CRA" for Crastin or "RYN" for Rynite or "ETPV" for ETPV or "SOR" for Sorona grades.

Flammability	Value	Test Method
Flame Rating		UL 94
0.350 mm, NC, BK	V-0	IEC 60695-11-10, -20
0.750 mm, ALL	V-0	
0.900 mm, NC	V-0, 5VA	
1.50 mm, NC, BK	V-0, 5VA	
2.00 mm, ALL	V-0, 5VA	
3.00 mm, ALL	V-0, 5VA	
Glow Wire Flammability Index		IEC 60695-2-12
0.750 mm	960 °C	
0.900 mm	960 °C	
1.50 mm	960 °C	
2.00 mm	960 °C	
3.00 mm	960 °C	
Glow Wire Ignition Temperature		IEC 60695-2-13
0.750 mm	800 °C	
0.900 mm	800 °C	
1.50 mm	800 °C	
2.00 mm	985 °C	
3.00 mm	985 °C	
Electrical	Value	Test Method
Hot-wire Ignition (HWI)		UL 746
0.350 mm	PLC 3	
0.750 mm	PLC 2	
0.900 mm	PLC 2	
1.50 mm	PLC 0	
2.00 mm	PLC 0	
3.00 mm	PLC 0	
High Amp Arc Ignition (HAI)		UL 746
0.350 mm	PLC 1	
0.750 mm	PLC 1	
0.900 mm	PLC 1	
1.50 mm	PLC 1	
2.00 mm	PLC 1	
3.00 mm	PLC 1	

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Electrical	Value	Test Method
Comparative Tracking Index (CTI)	PLC 2	UL 746
Dielectric Strength	34 kV/mm	ASTM D149 IEC 60243-1
High Voltage Arc Tracking Rate (HVTR)	PLC 1	UL 746
Volume Resistivity	1.0E+16 ohms·cm	ASTM D257 IEC 60093
Arc Resistance	PLC 6	ASTM D495
Thermal	Value	Test Method
RTI Elec		UL 746
0.350 mm	155 °C	
0.750 mm	155 °C	
0.900 mm	155 °C	
1.50 mm	155 °C	
2.00 mm	155 °C	
3.00 mm	155 °C	
RTI Imp		UL 746
0.350 mm	155 °C	
0.750 mm	155 °C	
0.900 mm	155 °C	
1.50 mm	155 °C	
2.00 mm	155 °C	
3.00 mm	155 °C	
RTI Str		UL 746
0.350 mm	155 °C	
0.750 mm	155 °C	
0.900 mm	155 °C	
1.50 mm	155 °C	
2.00 mm	155 °C	
3.00 mm	155 °C	
Ball Pressure Test (245°C, 3.00 mm)	Pass	IEC 60695-10-2
Physical	Value	Test Method
Dimensional Stability	0.0 %	ASTM D1042 ISO 2796
Outdoor Suitability	f1	UL 746C

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