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Component - Plastics

E41938

E I DUPONT DE NEMOURS & CO INC

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

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

Polyethylene Terephthalate (PET), glass reinforced, flame retardant, "Rynite", furnished as pellets

Color	Min Thk (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str
NC, BK	0.35	V-0	3	1	155	-	-
ALL	0.75	V-0	2	1	155	155	155
NC	0.9	V-0, 5VA	2	1	155	155	155
NC, BK	1.5	V-0, 5VA	0	1	155	155	155
ALL	2.0	V-0, 5VA	0	1	155	155	155
	3.0	V-0, 5VA	0	1	155	155	155

Comparative Tracking Index (CTI): **2**

Inclined Plane Tracking (IPT): -

Dielectric Strength (kV/mm): **34**

Volume Resistivity (10^x ohm-cm) : **16**

High-Voltage Arc Tracking Rate (HVTR): **1**

High Volt, Low Current Arc Resis (D495): **6**

Dimensional Stability (%): **0**

(+) - 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 grades.

ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSI/UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.

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IEC and ISO Test Methods

Test Name	Test Method	Units	Thickness	
			Tested (mm)	Value
Flammability	IEC 60695-11-10, IEC 60695-11-20	Class (color)	0.35	V-0 (NC, BK)
			0.75	V-0 (ALL)
			0.9	V-0, 5VA (NC)
			1.5	V-0, 5VA (NC, BK)
			2.0	V-0, 5VA (ALL)
			3.0	V-0, 5VA (ALL)
Glow-Wire Flammability (GWFI)	IEC 60695-2-12	C	0.75	960
			0.9	960
			1.5	960
			2.0	960
			3.0	960
Glow-Wire Ignition (GWIT)	IEC 60695-2-13	C	0.75	800
			0.9	800
			1.5	800
			2.0	985

			3.0	985
IEC Comparative Tracking Index	IEC 60112	Volts (Max)	-	-
IEC Ball Pressure	IEC 60695-10-2	C	3.0	245
ISO Heat Deflection (1.80 MPa)	ISO 75-2	C	-	-
ISO Tensile Strength	ISO 527-2	MPa	-	-
ISO Flexural Strength	ISO 178	MPa	-	-
ISO Tensile Impact	ISO 8256	kJ/m²	-	-
ISO Izod Impact	ISO 180	kJ/m²	-	-
ISO Charpy Impact	ISO 179-2	kJ/m²	-	-

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The materials covered in this database are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. THE FINAL ACCEPTANCE OF THE COMPONENT IS DEPENDENT UPON ITS INSTALLATION AND USE IN COMPLETE PRODUCTS SUBMITTED TO UNDERWRITERS LABORATORIES.

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