Component - Plastics E41938

Guide Information

E I DUPONT DE NEMOURS & CO INC

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

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	155	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

Dielectric Strength (kV/mm): 34

High-Voltage Arc Tracking Rate (HVTR): 1

Dimensional Stability (%): 0

Inclined Plane Tracking (IPT) kV: -

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

Surface Resistivity (10^x ohms/square): -

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

(+) - 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.

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.

Report Date: 1996-01-04

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IEC and ISO Test Methods

Test Name	Test Method	Units	Thk (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	-	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/m^2	-	-
ISO Izod Impact	ISO 180	kJ/m^2	-	-
ISO Charpy Impact	ISO 179-1	kJ/m^2	-	-