

**CELANESE INTERNATIONAL CORP**8040 DIXIE HWY
FLORENCE, KY 41042-2904 United States

File Number: E41938

Zytel: FR50(+)(f1)

Polyamide 66 (PA66), flame retardant, glass reinforced, pellets

(+) - 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.

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 IEC 60695-11-10, -20
0.35 mm, ALL	V-0	
0.75 mm, ALL	V-0	
1.5 mm, NC, BK	V-0, 5VA	
3.0 mm, NC, BK	V-0, 5VA	
Glow Wire Flammability Index		IEC 60695-2-12
0.75 mm	960 °C	
1.5 mm	960 °C	
3.0 mm	960 °C	
Glow Wire Ignition Temperature		IEC 60695-2-13
0.75 mm	900 °C	
1.5 mm	900 °C	
3.0 mm	930 °C	
Electrical	Value	Test Method
Hot-wire Ignition (HWI)		UL 746A
0.75 mm	PLC 0	
1.5 mm	PLC 0	
3.0 mm	PLC 0	
High Amp Arc Ignition (HAI)		UL 746A
0.75 mm	PLC 0	
1.5 mm	PLC 0	
3.0 mm	PLC 0	
Comparative Tracking Index (CTI)	PLC 2	UL 746A
Dielectric Strength	25 kV/mm	ASTM D149
High Voltage Arc Tracking Rate (HVTR)	PLC 1	UL 746A
Volume Resistivity	1.0E+11 ohms-cm	ASTM D257 IEC 60093
Arc Resistance	PLC 6	ASTM D495

Component - Plastics

FR50(+)(f1)



Thermal	Value	Test Method
RTI Elec		UL 746B
0.75 mm	130 °C	
1.5 mm	130 °C	
3.0 mm	130 °C	
RTI Imp		UL 746B
0.75 mm	105 °C	
1.5 mm	115 °C	
3.0 mm	115 °C	
RTI Str		UL 746B
0.75 mm	105 °C	
1.5 mm	115 °C	
3.0 mm	120 °C	
Ball Pressure Test (240°C)	Pass	IEC 60695-10-2
Physical	Value	Test Method
Outdoor Suitability	f1	UL 746C