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The information presented on the UL Prospector datasheet was acquired by UL Prospector from the producer of the material. UL Prospector makes substantial efforts to assure the accuracy of this data. However, UL Prospector assumes no responsibility for the data values and strongly encourages that upon final material selection, data points are validated with the material supplier.

Component - Plastics

E256266

Guide Information

**ITW ELECTRONICS COMPONENTS/ PRODUCTS (SHANGHAI) CO LTD**

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**Formex CED-(a)(d)(e)(k)(L)(f2), Formex N1J-(a)(d)(e)(k)(L)(f2), Formex N1T-(a)(d)(e)(k)(L)(f2), Formex N1M-(a)(d)(e)(k)(L)(f2), Formex N1Y-(a)(d)(e)(k)(L)(f2), Formex N1K-(a)(d)(e)(k)(L)(f2), Formex N1U-(a)(d)(e)(k)(L)(f2), Formex N1S-(a)(d)(e)(k)(L)(f2), Formex N1O-(a)(d)(e)(k)(L)(f2), Formex N1B-(a)(d)(e)(k)(L)(f2)**

Polycarbonate, furnished as 3 layers of sheet

Color	Min. Thk (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str
NC, BK	0.16	VTM-0	4	0	105	-	105
	0.19	VTM-0	0	0	105	-	105
	0.25	VTM-0	0	0	105	-	105

Comparative Tracking Index (CTI): 3  
 Dielectric Strength (kV/mm): 47  
 High-Voltage Arc Tracking Rate (HVTR): 3  
 Dimensional Stability (%): -  
 Inclined Plane Tracking (IPT) kV: -  
 Volume Resistivity (10<sup>x</sup> ohm-cm): 18  
 High Volt, Low Current Arc Resis (D495): 7

- (L) - Meets the requirements for Reinforced Insulation and Supplementary Insulation requirements in IEC60950-1, IEC62368-1, IEC61558-1, IEC60065 and IEC61347-1 at thicknesses between 0.16 mm and 0.25 mm inclusive
- (a) - One to three digit suffix indicating nominal thickness in mills.
- (d) - May have additional suffix letter(s) indicating color.
- (e) - Meets the requirements for IEC 60950-1, IEC 61558-1 Mandrel Test at 0.16 mm, 0.19 mm and 0.25 mm thickness at 7kVAC
- (f2) - Subjected to one or more of the following tests: Ultraviolet Light, Water Exposure or Immersion in accordance with UL 746C, where the acceptability for outdoor use is to be determined by UL.
- (k) - Complies with the IEC 60695-11-5, 12 mm Flame Test (60 Sec flame duration).

NOTE - HVTR, CTI and D495 are thickness independent

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	Thk (mm)	Value
Flammability	ISO 9773	Class (color)	0.16	VTM-0 (NC, BK)
			0.19	VTM-0 (NC, BK)
			0.25	VTM-0 (NC, BK)
Glow-Wire Flammability (GWFI)	IEC 60695-2-12	°C	-	-
Glow-Wire Ignition (GWIT)	IEC 60695-2-13	°C	-	-
IEC Comparative Tracking Index	IEC 60112	Volts (Max)	-	-
IEC Ball Pressure	IEC 60695-10-2	°C	-	-
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 <sup>2</sup>	-	-
ISO Izod Impact	ISO 180	kJ/m <sup>2</sup>	-	-
ISO Charpy Impact	ISO 179-2	kJ/m <sup>2</sup>	-	-