

# QMFZ2.E121855 - Plastics - Component

## Plastics - Component

**FORMEX, DIV OF ILLINOIS TOOL WORKS INC**  
 425 N Gary Ave  
 Carol Stream, IL 60188 United States

E121855

Dsg	Color	Min Thk mm	Flame Class	H W I	H A I	Elec Str	RTI Mech Imp	Str	H V T R	D 4 9 5	C T I
<b>Polycarbonate furnished as 3 layers of sheet</b>											
<b>Formex CED-(b)(d)(e)(k)(L)(f2), Formex N1J-(a)(b)(e)(k)(L)(f2), Formex N1T-(a)(b)(e)(k)(L)(f2), Formex N1M-(a)(b)(e)(k)(L)(f2), Formex N1Y-(a)(b)(e)(k)(L)(f2), Formex N1K-(a)(b)(e)(k)(L)(f2), Formex N1U-(a)(b)(e)(k)(L)(f2), Formex N1S-(a)(b)(e)(k)(L)(f2), Formex N1O-(a)(b)(e)(k)(L)(f2), Formex N1B-(a)(b)(e)(k)(L)(f2),</b>											
	NC, BK	0.16	VTM-0	4	0	105	-	105	3	7	3
		0.19	VTM-0	0	0	105	-	105	-	-	-
		0.25	VTM-0	0	0	105	-	105	-	-	-
<b>Polycarbonate (PC), flame retardant, furnished as sheets or pellets</b>											
<b>NHFRPC(f2)</b>	NC, BK	0.10	VTM-0	4	1	120	-	120	4	-	4
		0.16	VTM-0	4	1	120	-	120	-	-	-
		0.25-0.28	VTM-0	3	0	120	-	120	-	-	-
		0.38	V-0	3	0	120	-	120	-	-	-
		2.0	V-0	2	0	120	-	120	-	-	-

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<b>Polycarbonate (PC), Puncture Resistant, furnished as Multiple Layers of Sheets</b>											
<b>Formex N6-(m)(b)(k)(n)(o)</b>	BK	0.25	V-0	1	0	130	-	130	4	-	3
		0.40	V-0	1	0	130	-	130	-	-	-
<b>Polycarbonate (PC) furnished as Multiple Layers of Sheets</b>											
<b>Formex CND-(b)(d)(e)(k)(L)(f2)</b>	NC, BK	0.16	VTM-0	4	1	80	-	80	1	-	3
		0.19	VTM-0	4	1	80	-	80	-	-	-
		0.25	VTM-0	4	1	80	-	80	-	-	-
<b>Formex N2-(b)(d)(e)(f2)</b>	NC, BK	0.16	VTM-0	4	1	120	-	120	1	-	3
		0.19	VTM-0	4	1	120	-	120	-	-	-
		0.25	VTM-0	4	1	120	-	120	-	-	-
<b>Formex N3-(b)(d)(e)(k)(L)(f2)</b>	NC, BK	0.05	VTM-0	4	4	120	-	120	1	-	3
		0.16	VTM-0	4	1	130	-	130	-	-	-
		0.19	VTM-0	4	1	130	-	130	-	-	-
		0.25	VTM-0	4	1	130	-	130	-	-	-
<b>Formex NS-(b)(d)(e)(k)(L)(f2)</b>	NC, BK	0.05	VTM-0	4	4	120	-	120	1	-	3
		0.16	VTM-0	4	1	130	-	130	-	-	-
		0.19	VTM-0	4	1	130	-	130	-	-	-
		0.25	VTM-0	4	1	130	-	130	-	-	-
<b>Formex SC-(b)(d)(e)(k)(L)</b>	NC, BK	0.16	VTM-0	4	1	80	-	80	1	-	3
		0.19	VTM-0	4	1	80	-	80	-	-	-
		0.25	VTM-0	4	1	80	-	80	-	-	-
		0.25	VTM-0	4	1	80	-	80	-	-	-
<b>Polyether Ether Ketone (PEEK) furnished as pellets</b>											
<b>Formex IMPEEK CG33</b>	BK	0.75	V-0	0	1	130	130	130	-	-	-

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		1.5	V-0	0	1	130	130	130	-	-	-
		3.0	V-0	0	0	130	130	130	-	-	-
<b>Polypropylene (PP), static dissipative treated, furnished as sheets</b>											
<b>STATEX-(a)(b)(f1)</b>	BK	0.41	V-0	4	3	100	90	100	0	6	0
		0.75	V-0	3	0	110	105	110	-	-	-
		2.4	V-0	2	0	110	105	110	-	-	-
		3.0	V-0	2	0	110	115	120	-	-	-
<b>STATEX-(a)(b)(f2)</b>	ALL	0.05	VTM-0	4	0	115	-	115	0	6	0
		0.10	VTM-0	4	0	115	-	115	-	-	-
		0.20	VTM-0	4	0	115	-	115	-	-	-
		0.37	V-0	4	0	115	-	115	-	-	-
		0.71	V-0	4	0	115	-	115	-	-	-
		3.0	V-0	1	0	115	-	115	-	-	-
	NC, BK	0.0508	VTM-0	4	0	115	-	115	-	-	-
		0.254	VTM-0	4	0	115	-	115	-	-	-
<b>Polypropylene (PP) furnished as 3 layer sheets</b>											
<b>Formex GRD-(b)(d)(g)(h)(L)(f2)</b>	NC, BK	0.09	VTM-0	4	1	115	-	115	0	-	0
		0.16	VTM-0	4	1	115	-	115	-	-	-
		0.25	VTM-0	3	0	115	-	115	-	-	-
<b>Polypropylene (PP) furnished as profile extruded panels</b>											
<b>FORMEX GK-(a)(b) Panels</b>	ALL	4.0	V-0	0	0	115	-	115	0	6	0
<b>FORMEX GS-(a)(b) Panels</b>	ALL	4.0	V-0	4	0	115	-	115	0	6	0

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		5.8	V-0	4	0	115	-	115	-	-	-
<b>Polypropylene (PP) furnished as sheets</b>											
<b>Formex EP-(a)(d)(f2)</b>	NC, BK	0.05	VTM-0	0	4	105	105	105	0	7	0
		0.23	VTM-0	0	3	105	105	105	-	-	-
		0.38	V-0	0	2	105	105	105	-	-	-
		0.71	V-0	0	1	105	105	105	-	-	-
		3.0	V-0	0	1	105	105	105	-	-	-
<b>FORMEX GK-(a)(b)(f1)</b>	BK	0.20	VTM-0	0	0	115	-	115	0	6	0
		0.37	V-0	0	0	115	-	115	-	-	-
		0.71	V-0	0	0	115	-	115	-	-	-
		3.0	V-0	0	0	115	-	115	-	-	-
<b>FORMEX GK-(a)(d)(f2)</b>	ALL	0.05	VTM-0	0	0	115	-	115	0	6	0
		0.10	VTM-0	0	0	115	-	115	-	-	-
		0.20	VTM-0	0	0	115	-	115	-	-	-
		0.37	V-0	0	0	115	-	115	-	-	-
		0.71	V-0	0	0	115	-	115	-	-	-
		3.0	V-0	0	0	115	-	115	-	-	-
<b>Formex GL-(a)(b)(f2), Formex GLJ-(a)(b)(f2), Formex GLT-(a)(b)(f2), Formex GLM-(a)(b)(f2), Formex GLY-(a)(b)(f2), Formex GLK-(a)(b)(f2), Formex GLU-(a)(b)(f2), Formex GLS-(a)(b)(f2), Formex GLO-(a)(b)(f2) , Formex GLB-(a)(b)(f2)</b>											
	NC, BK	0.110-0.250	VTM-0	0	2	125	-	115	0	6	0
		0.38	V-0	0	2	125	-	115	-	-	-
		0.43	V-0	0	2	125	-	115	-	-	-
		0.71	V-0	0	1	125	-	115	-	-	-

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<b>Formex GL-(a)(d)(f2)(i)</b>	NC, BK	0.110-0.250	VTM-0	0	2	125	-	115	0	6	0
		0.38	V-0	0	2	125	-	115	-	-	-
		0.43	V-0	0	2	125	-	115	-	-	-
		0.71	V-0	0	1	125	-	115	-	-	-
<b>FORMEX GS-(a)(b)(f1)</b>	BK	0.20	VTM-0	0	0	115	-	115	0	6	0
		0.37	V-0	0	0	115	-	115	-	-	-
		0.71	V-0	0	0	115	-	115	-	-	-
		3.0	V-0	0	0	115	-	115	-	-	-
<b>FORMEX GS-(a)(b)(f2)</b>	ALL	0.05	VTM-0	0	0	115	-	115	0	6	0
		0.10	VTM-0	0	0	115	-	115	-	-	-
		0.20	VTM-0	0	0	115	-	115	-	-	-
		0.37	V-0	0	0	115	-	115	-	-	-
		0.71	V-0	0	0	115	-	115	-	-	-
		3.0	V-0	0	0	115	-	115	-	-	-
<b>FORMEX NP (a)(b)</b>	NC, BK	0.20	VTM-0	0	2	70	-	70	2	5	0
		0.25	VTM-0	0	2	70	-	70	-	-	-
		0.26	V-0	0	2	70	-	70	-	-	-
		0.40	V-0	0	1	70	-	70	-	-	-
		3.0	V-0	0	0	70	-	70	-	-	-
<div style="display: flex; justify-content: space-between; align-items: center;"> <div data-bbox="129 1284 560 1332" data-label="Text"> <p><b>Cookies on UL Solutions</b></p> </div> <div data-bbox="1523 1268 1769 1316" data-label="Text"> <p><a href="#">Cookies Settings</a></p> </div> </div> <p>Formex PR-(a)(b)(f2), Formex PRJ-(a)(b)(f2), Formex PRT-(a)(b)(f2), Formex PRM-(a)(b)(f2), Formex PRY-(a)(b)(f2), Formex PRZ-(a)(b)(f2), Formex PRU-(a)(b)(f2), Formex PRS-(a)(b)(f2), Formex PRO-(a)(b)(f2), Formex PRB-(a)(b)(f2)</p>											
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	NC, BK	0.75	V-2	4	2	125	125	125	0	6	0
		3.0	V-2	4	1	125	125	125	-	-	-

<b>Formex PR-(a)(d)(f2)</b>	NC, BK	0.75	V-2	4	2	125	125	125	0	6	0
		3.0	V-2	4	1	125	125	125	-	-	-
<b>Formex SE-(a)(d)(f2)</b>	NC, BK	0.05	VTM-0	5	4	65	90	90	0	7	0
		0.23	VTM-0	4	3	90	90	90	-	-	-
		0.38	V-0	4	2	90	90	90	-	-	-
		0.71	V-0	3	1	90	90	90	-	-	-
		3.0	V-0	1	1	90	90	90	-	-	-
<b>FORMEX SG-(a)(d)(f2)</b>	ALL	0.05	VTM-0	4	0	115	-	115	0	6	0
		0.10	VTM-0	4	0	115	-	115	-	-	-
		0.20	VTM-0	4	0	115	-	115	-	-	-
		0.37	V-0	4	0	115	-	115	-	-	-
		0.71	V-0	4	0	115	-	115	-	-	-
		3.0	V-0	1	0	115	-	115	-	-	-
<b>Formex SL-(a)(d)(f2)</b>	NC, BK	0.110-0.250	VTM-0	0	2	125	-	115	0	6	0
		0.38	V-0	0	2	125	-	115	-	-	-
		0.43	V-0	0	2	125	-	115	-	-	-
		0.71	V-0	0	1	125	-	115	-	-	-
<b>FORMEX-(a)(b)(f1)</b>	BK	0.41	V-0	4	3	100	90	100	0	6	0
		0.75	V-0	3	0	110	105	110	-	-	-
		2.4	V-0	2	0	110	105	110	-	-	-
		3.0	V-0	2	0	110	115	120	-	-	-
<b>FORMEX-(a)(b)(f2)</b>	NC	0.20	VTM-0	5	3	95	-	95	0	6	0
		0.41	V-0	4	3	100	90	100	-	-	-

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	ALL	0.75	V-0	3	0	110	105	110	-	-	-
		2.4	V-0	2	0	110	105	110	-	-	-
		3.0	V-0	2	0	110	115	120	-	-	-

(a) - One to three digit suffix indicating nominal thickness in mils.

(b) - May have additional suffix letter(s) indicating color.

(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

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

(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.

(g) - Meets the requirements for IEC 60950-1, IEC 61558-1 Mandrel Test at 0.20 mm and 0.25 mm thickness at 7KvAC

(h) - Meets the requirements for IEC 60950-1, IEC 61558-1 Mandrel Test at 0.16 mm at 5KvAC

(i) - IPT rating is 60 min at 1.5 kV for thicknesses less than 0.43mm in the color BK

(k) - Complies with the IEC 60695-11-5, 12 mm Flame Test (60 Sec flame duration).

(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

(m) - Two digit suffix indicating nominal thickness in mils (10~16 mils)

(n) - Meets the requirements for Reinforced Insulation and Supplementary Insulation requirements in IEC60950-1 , IEC62368-1, IEC61558-1, IEC60065 and IEC61347-1 at thicknesses between 0.25 mm and 0.40 mm inclusive

(o) - Meets the requirements for IEC 60950-1, IEC 61558-1 Mandrel Test at 0.25 mm and 0.40 mm thickness at 7KvAC

NOTE - HVTR, CTI and D495 are not dependent on thickness

Marking: Company name, material designation On container, wrapper Or finished part.

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