

1. Test method

- **ASTM G 22**

(Determining Resistance of Plastics to Bacteria)

- **Strains:**

Pseudomonas Aeruginosa (ATCC 13388)

- **Culture condition:**

96.8 +/- 1.8°F(36 +/- 1°C), 90%RH, 21 days

- **Limitation**

OBSERVED GROWTH ON SPECIMEN	RATING
None	0
Traces of growth (Less than 10%)	1
Light Growth (10-30%)	2
Medium Growth (30-60%)	3
Heavy Growth (60%-Complete coverage)	4

2. Test result

- **Zero traces of growth**

CULTURE TIME	0 WEEK	1 WEEK	2 WEEK	3 WEEK
Result	0	0	0	0

PROPERTIES	TYPICAL RESULTS	TEST PROCEDURE
Tensile strength	6,000 psi	ASTM D 638
Tensile modulus	600,000 psi	ASTM D 638
Flexural strength	10,000 psi	ASTM D 790
Flexural modulus	1,000,000 psi	ASTM D 790
Elongation	0.50%	ASTM D 638
Hardness	92 Rockwell "M" Scale 65 Barcol Impressor	ASTM D 785 ASTM D 2583
Thermal expansion	2.0 x 10-5 in/in F°	ASTM D 696
Gloss (60 Gardner)	Between 5 - 20	NEMA LD-3
Color stability	No change-200hrs	NEMA LD-3
Stain resistance	Pass Rating 41	ANSI Z 124
Abrasion resistance	Pass	ANSI Z 124
Boiling water surface resistance	No effect	NEMA LD-3
High temperature resistance	No effect	NEMA LD-3
IZOD Impact resistance (notched)	0.28 ft.lbf/in	ASTM D 256
Ball drop 1/2" (12.3 mm) sheet	144" w/ 1/2 lb ball, No failure	NEMA LD-3
Fungi and Bacterial resistance	No growth	ASTM G 21, G22
Specific gravity Solid colors Patterened colors	1.72 1.69	ASTM D 792
Water absorption	0.04%, (1/2", 24hrs) 0.11%, (1/8", 24hrs)	ASTM D 570
Flammability Flame spread Smoke density	Class A / Class 1 10 10	UBC 8-1 ASTM E 84 ASTM E 84
Radiant heat resistance	No visual effect	NEMA LD-3
Toxicity	84.4g (Solid Color) 81.8g (Patterned Color)	Pittsburgh Test Protocol (LC50 Test)