

Physical Properties	ASTM Test Method	Units	Values
Specific Gravity	D-792		1.19
Optical Refractive Index	D-542		1.49
Light Transmittance (sample thickness .100")	D-1003		
Total		%	92
Haze		%	2
Sound Transmission (.125" thickness)	E 90-70 E 413	db	27
Water Absorption	D-570	% By Weight	.40
Shrinkage	D-702	% Shrinkage	.42 .33

Mechanical			
Tensile Strength Maximum	D-638	psi	10,100
Tensile Elongation Maximum		%	5.1
Modulus of Elasticity		psi	431,000
Flexural Strength Maximum	D-790	psi	14,600
Izod Molded Notch 1/2" x 2 1/2" x 1/4" bar at 73° F	D-256-56	Ft lbs/inch of notch	.4
Izod Milled Notch 1/2" x 2 1/2" x 1/4" bar at 73° F		Ft lbs/inch of notch	.28
Tensile Impact Strength	D-1822	Ft lb/in ²	20
Abrasion Resistance	D-1044		
0 cycles		Haze, %	2
10 cycles		Haze, %	15
50 cycles		Haze, %	30
200 cycles		Haze, %	50
Rockwell Hardness (sample thickness .250")	D-785		M-93

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use are beyond our control. We recommend that the prospective user determine the suitability of our materials and suggestions before adopting them on a commercial scale.

Thermal	ASTM Test Method	Units	Values
Maximum Recommended Continuous Service Temperature		°F	170-190
Softening Temperature		°F	210-220
Melting Temperature		°F	300-315
Deflection Temperature Load, Unannealed 3.6°F/minute, 264 psi 3.6°F/minute, 66 psi	D-648	°F °F	190 205
Coefficient of Thermal Expansion	D-696	ins/in/°F x 10 ⁻⁵	
-40°F			2.7
-20°F			2.9
0°F			3.1
20°F			3.2
40°F			3.4
60°F			3.6
80°F			3.9
100°F			4.3
Thermal Conductivity	C-177	BTU (HR)(Ft ²)(°F)/in	.9
Flammability (Burning Rate)	D-635	ins/minute	
		.060"	1.019
		.236"	.318
Smoke Density Rating	D-2843-77	%	
		.236"	.36
Self-Ignition Temp	D-1929	°F	
		.236"	833
Flame Spread Index/ Smoke Developed Index	E-84-86	.375" .236"	110 115

Chemical			
Resistance to Stress - Critical Cracking Stress to:	ARTC modification of MIL-P-6997		
Isopropyl Alcohol		psi	900
Lacquer Thinner		psi	500
Toluene		psi	1,300
Solvesso 100		psi	1,600

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