

**METRIC**

PROPERTY	ASTM OR UL TEST	MOLDING GRADE		
		CAST SHEET	STANDARD	HIGH IMPACT
<b>PHYSICAL</b>				
SPECIFIC GRAVITY	D792	1.19	1.19	1.15-1.17
SPECIFIC GRAVITY in3/lb (cm3/g)	D792	23.3 (645)	23.3 (645)	24.1 (667)
WATER ABSORPTION, 24 h, 1/8-in thk (%)	D570	0.2	0.3	0.3
<b>MECHANICAL</b>				
TENSILE STRENGTH PSI (MPa)	D638	10,500 (72)	10,500 (72)	5,400-7,000 (37-48)
ELONGATION (%)	D638	5	5	50
TENSILE MODULAS PSI (MPa)	D638	450000 (3100)	430000 (2965)	220000-320000 (1517-2200)
FLEXURAL SRENGTH PSI (MPa)	D790	16,500 (114)	16,000 (110)	7,000-10,500 (48-72)
FLEXURAL MODULUS PSI (MPa)	D790	450000 (3100)	450000 (3100)	230000-320000 (1586-2200)
IMPACT STRENGTH, IZOD ft-lb/in OF NOTCH (J/m of notch)	D256	0.4 (21.6)	0.4 (21.6)	0.6-1.2 (32.4-64.8)
HARDNESS, ROCKWELL M	D785	M100-102	M95	R99-M68

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PROPERTY	ASTM OR UL TEST	MOLDING GRADE		
		CAST SHEET	STANDARD	HIGH IMPACT
<b>THERMAL</b>				
COEFFICIENT OF THERMAL EXPANSION (10-5 in/in-°C)	D696	3.9	3.6	3.8
DEFLECTION TEMPERATURE °F (°C)	D648			
AT 264 PSI		200-215 (93-102)	198 (93)	170-190 (77-88)
AT 66 PSI		225 (107)	214 (101)	187 (86)
<b>ELECTRICAL</b>				
DIELECTRIC STRENGTH SHORT TIME, 1/8-in thk V/mil (KV/mm)	D149	500 (19.8)	500 (19.8)	383-450 (15.1-17.8)
DIELECTRIC CONSTANT	D150			
AT 1 kHz		3.3	3.3	3.9
AT 1 MHz		2.5	2.3	2.5-3.0
DISSIPATION FACTOR	D150			
AT 1 kHz		0.04	0.04	-
AT 1 MHz		0.02-0.03	0.02-0.03	0.01-0.02
VOLUME RESISTIVITY (ohm-cm) AT 73F, 50% RH	D257	>1017	>1017	>1017
ARC RESISTANCE (s), 120 mils	D495	No track	No Track	No track
<b>OPTICAL</b>				
REFRACTIVE INDEX	D542	1.49	1.49	1.49
TRANSMITTANCE (%)	D1003	92	92	90

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