

PROPERTIES	ASTM or UL TEST	MOLDING GRADE		
		CAST SHEET	STANDARD	HIGH IMPACT
Physical Properties				
Specific Gravity	ASTM D 792	1.19	1.19	1.15-1.17
Specific Gravity (cm ³ /g)	ASTM D 792	645	645	667
Water Absorption, 24 h, 1/8-in thk (%)	ASTM D 570	0.2	0.3	0.3
Mechanical Properties				
Tensile Strength (Mpa)	ASTM D 638	72	72	37-48
Elongation (%)	ASTM D 638	5	5	50
Tensile Modulus MPa	ASTM D 638	3100	2965	1517-2200
Flxural Strength MPa	ASTM D 790	114	110	48-72
Flexural Modulus MPa	ASTM D 790	3100	3100	1586-2200
Impact Strength (J/m of notch)	ASTM D 256	21.6	21.6	32.4-64.8
Hardness. Rockwell M	ASTM D 785	M100-102	M95	R99-M68
Thermal Properties				
Coefficient of Thermal Expansion (10-5 in/in-°C)	ASTM D 696	3.9	3.6	3.8
Deflection Temperature (°C)	ASTM D 648			
At 264 PSI		93-102	93	77-88
At 66 PSI		107	101	86
Electrical Properties				
Dielectrics strength short time, 1/8-inthk KV/mm	ASTM D 149	19.8	19.8	15.1-17.8
Dielectric Constant	ASTM D 150			
At 1 kHz		3.3	3.3	3.9
At 1 Mhz		2.5	2.3	2.5-3.0
Dissipation Factor	ASTM D 150			
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	ASTM D 495	10 ^{^17}	10 ^{^17}	10 ^{^15}
Arc Resistance (s), 120 mils		No Track	No Track	No Track
Optical Properties				
Refractice Index	ASTM D 542	1.49	1.49	1.49
Transmittance (%)	ASTM D 1003	92	92	90

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