

PROPERTY	ASTM or UL TEST	TUFFKAST	TUFFKAST 015	TUFFKAST 010
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PHYSICAL				
SPECIFIC GRAVITY	D792	1.14	1.14	1.13
WATER ABSORPTION (%)	D570			
24 HRS		0.3 - 0.5	0.20	0.2 - 0.35
EQUILIBRIUM		0.8 - 2	0.5 - 2	0.5 - 2

MECHANICAL				
TENSILE STRENGTH (psi)	D638	8,900 - 11,000	8,500 - 10,000	8,900 - 10,000
ELONGATION*	D638	40 - 70	45 - 80	45 - 70
TENSILE MODULUS (105 psi)	D638	400,000	390,000	400,000
COMPRESSIVE STRENGTH (10% Def.) (psi)	D695	12,000 - 13,000	12,000	12,000
FLEXURAL STRENGTH (psi)	D790	16,3000	16,000	16,000
FLEXURAL MODULUS (105 psi)	D790	350,000	320,000	320,000
NOTCHED IMPACT STRENGTH, IZOD (ft-lb/in)	D256	1.83 - 2.74	2 - 2.74	2 - 2.74

THERMAL				
BURN RATE	UL 94	V-2	V-2	V-2
FLAMMABILITY	ASTM D639	self-ext.	self-ext	self-ext
MELTING POINT (°F)	ASTM D789	428	428	428
MAX SERVICE TEMP (°F)				
CONTINUOUS		220 - 250	220 - 250	220 - 250
INTERMITTENT		280 - 300	280 - 300	280 - 300
COEFFICIENT OF THERMAL EXPANSION (in/in-°F)	D696	5.5 x 10 ⁻⁵	5.5 x 10 ⁻⁵	5.5 x 10 ⁻⁵

ELECTRICAL				
DIELECTRIC STRENGTH (V/mil) short time)	D149	500 - 600	500 - 600	500 - 600
DIELECTRIC CONSTANT	D150			
AT 60 htz		3.70	3.70	3.70
AT 10 ⁻⁵ htz		3.70	3.70	3.70

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