

PROPERTY	ASTM or UL TEST	TUFFKAST 025	TUFFKAST 020	TUFFKAST 015	TUFFKAST 010
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PHYSICAL					
SPECIFIC GRAVITY	D792	1.14	1.13	1.14	1.13
WATER ABSORPTION (% weight incr.)	D570				
24 HRS		0.3 - 0.5	0.2 - 0.3	0.20	0.2 - 0.35
EQUILIBRIUM		0.8 - 2	0.5 - 2	0.5 - 2	0.5 - 2

MECHANICAL					
TENSILE STRENGTH (psi)	D638	8,900 - 11,000	8,000 - 9,500	8,500 - 10,000	8,900 - 10,000
ELONGATION AT BREAK	D638	40 - 70	50 - 80	45 - 80	45 - 70
TENSILE MODULUS (105 psi)	D638	400,000	390,000	390,000	400,000
COMPRESSIVE STRENGTH (10% Def.) (psi)	D695	12,000 - 13,000	11,000	12,000	12,000
FLEXURAL STRENGTH (psi)	D790	16,3000	16,000	16,000	16,000
FLEXURAL MODULUS (105 psi)	D790	350,000	320,000	320,000	320,000
NOTCHED IMPACT STRENGTH, IZOD (ft-lb/in)	D256	1.83 - 2.74	2.2 - 3.0	2 - 2.74	2 - 2.74
COEFFICIENT OF FRICTION (DYNAMIC (DRY VS. STEEL))		0.30 - 0.40	0.20 - 0.30	0.13 - 0.15	0.08 - 0.13
HARDNESS (SHORE D)	D2248	76 - 82	74 - 78	74 - 80	76 - 82

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

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

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