



## SKYCORE ACN40500

CHARACTERISTIC	TEST METHOD	UNIT	TEST VALUE
THICKNESS	Caliper	inch / mm	0.50±0.010 / 12.7±0.25
WEIGHT	ASTM D 461 (11)	lb/ft <sup>2</sup> / g/m <sup>2</sup>	0.84±0.084 / 4100±410
LONG BEAM FLEXURAL FAILURE LOAD	MIL-STD 401 W (Warp) Direction	lbf (per 3 inches)	500
LONG BEAM FLEXURAL STRENGTH <sup>1</sup>	MIL-STD 401 W (Warp) Direction	ksi	35
SHORT BEAM FLEXURAL FAILURE LOAD	MIL-STD 401 W (Warp) Direction	lbf (per 3 inches)	750
CORE SHEAR STRENGTH <sup>2</sup>	MIL-STD 401 W (Warp) Direction	psi	263
CLIMBING DRUM PEEL STRENGTH	MIL-STD 401 W (Warp) Direction	lbf (per 3 inches)	45
FLATWISE COMPRESSIVE STRENGTH	FAR 25.853 (d) FAR 25 App. F Pt. IV	psi	1600
IMPACT STRENGTH	ASTM 5420 Gardner IM-IG-1140	in-lb	48
MAXIMUM SERVICE TEMPERATURE	Experiment	°F / °C	220 / 104
FLAMMABILITY (60 sec)	FAR 25.853 (d) FAR 25 App. F Pt. I	Flame time (sec) Burn length (in) Drip time (sec)	2.3 1.0 0
SMOKE DENSITY	FAR 25.853 (d) FAR 25 App. F Pt. V ASTM E-662	Ds 4-minutes Ds maximum	8 15

<sup>1</sup> Flexural Strength  $F_L = [P*(L-A)]/[4*(H-t)*B*t*1000]$ , where  $F_L$  = Flexural Strength in Compression (ksi), P = Total Load at Failure (lbs), L = Support Span Length = 20 inches, A = Loading Span Length = 10 inches, t = Facesheet Thickness = 0.021 inches, H = Total Panel Thickness, B = Panel Width = 3 inches

<sup>2</sup> Core Shear Strength  $F_C = [P]/[2*(H-t)*B]$ , where  $F_C$  = Core Shear Stress (psi), P = Total Load at Failure (lbs), t = Facesheet Thickness = 0.021 inches, H = Total Panel Thickness, B = Panel Width = 3 inches