



SOTERIA MAX™

THE SELF-COOLING PAD

With outstanding technical performance, SoteriaMax™ provides the best value in the market for expanded polypropylene turf pads.

	TEST METHOD	VERIFICATION	SOTERIA MAX BY SAFEPLAY	POWER BASE YSR
NOMINAL THICKNESS	-	-	25 mm	25 mm
TENSILE STRENGTH	ASTM D3574 - E	LABOSPORT R21270CAN-AA1	> 80 psi	> 80 psi
TENSILE ELONGATION	ASTM D3574 - E	LABOSPORT R21270CAN-AA1	> 30%	> 30%
COMPRESSION STRENGTH 25% strain 50% strain	ASTM 3575-08 - D	LABOSPORT R21270CAN-AC1	≥ 20 psi > 30 psi	≥ 20 psi > 30 psi
COMPRESSION SET (35 psi for 30 min - set after 24 hrs)	Internal Test Method	Internal Test Method	<10%	<10%
COEFFICIENT OF LINEAR THERMAL EXPANSION (per 1°C change)	ASTM D696	JSP ARPRO®	<0.10 mm / m	<0.10 mm / m
THERMAL CONDUCTIVITY (Lambda value)	EN 12667:2001 / ISO 7345	ARPRO® Thermal conductivity and CLTE	0.0377 W/mK	0.0377 W/mK
THERMAL RESISTANCE (R value)	EN 12667:2001 / ISO 7345	ARPRO® Thermal conductivity and CLTE	0.64 km2/W	0.64 km2/W
WATER ABSORPTION (after 24 immersion)	DIN 53 428	JSP ARPRO®	≤1%	≤1%
WATER PERMEABILITY	ASTM 1551-9 / DIN 18 035-6	LABOSPORT R21270CAN-AJ1	> 500 in/hr	> 500 in/hr
LATERAL TRANSMISSIVITY Flow rate at .005 gradient Flow rate at .0075 gradient Flow rate at .01 gradient	ASTM D4716	LABOSPORT R21270CAN-AJ1	per Labosport testing 0.30 gpm/ft 0.40 gpm/ft 0.50 gpm/ft	per Labosport testing 0.30 gpm/ft 0.40 gpm/ft 0.50 gpm/ft
HEAD INJURY CRITERION 1000 - Critical Fall Height	ASTM F3146	LABOSPORT R21270CAN-AI1	1.2 m	1.2 m
GMAX	ASTM F355 - A	LABOSPORT R21270CAN-AG1	<90 g	<90 g
SHOCK ABSORPTION	ASTM F3189	LABOSPORT R21270CAN-AE1	>60%	>60%
VERTICAL DEFORMATION	ASTM F3189	LABOSPORT R21270CAN-AE1	<10mm	<10mm
ENERGY RESTITUTION	ASTM F3189	LABOSPORT R21270CAN-BF1	36%	36%
RESISTANCE TO CHEMICALS	JSP Method	JSP Based on ASTM F925	≤2	≤2
MICROBIOLOGICAL ANALYSIS BACTERIA RESISTANCE Fungi resistance	ASTM G22	Express Analytical Services 99-04-306-02	No Growth No Growth	No Growth No Growth
HEAVY METALS	CAM 17	eurofins 15-02-0865	Compliant	Compliant
VOCs	EPA Method 8260B	Material Certification	Compliant	Compliant
SVOCs	EPA Method 8270C	Material Certification	Compliant	Compliant
CALIFORNIA TITLE 22	California Title 22	eurofins 15-02-0865	Compliant	Compliant
CALIFORNIA PROPOSITION 65	Prop 65	Material Certification	Certified	Certified