

Sleeping pad minimum temperature and R-values

Friday, January 26, 2018 11:02 AM

Other brands R-Value comparison <https://sectionhiker.com/sleeping-pad-r-values/>

R-Value/Temperature Rating Comparison																			
R-Value	1.2	1.4	1.6	1.7	2.1	2.5	2.9	3.2	4	4.1	4.6	4.9	5.3	5.9	6	6.4	7	8	9.5
Fahrenheit	48	48	46	41	36	34	28	23	12	10	5	1	-4	-11	-13	-18	-26	-36	-54
Celsius	9	9	8	5	2	1	-2	-5	-11	-12	-15	-17	-20	-24	-25	-28	-32	-38	-48

THERMA-REST®

MATRESS NAME	SIZE	SKU#	DIMENSION	WEIGHT	FABRIC INFORMATION	THICKNESS	COMPRESSED DIMENSION	R-VALUE EQUALS RELATIVE WARMTH
NEOAIR™ XTHERM™	S	06649	51 x 119 cm (20 x 47 in.)	310 g (11 oz.)	30d High Tenacity Nylon/ 70d Nylon Soft Grip	6.3 cm (2.5 in.)	23 x 9 cm (9 x 3.3 in.)	5.7
	M	06650	51 x 168 cm (20 x 66 in.)	410 g (14 oz.)	30d High Tenacity Nylon/ 70d Nylon Soft Grip	6.3 cm (2.5 in.)	23 x 10 cm (9 x 4.0 in.)	5.7
	R	06651	51 x 183 cm (20 x 72 in.)	430 g (15 oz.)	30d High Tenacity Nylon/ 70d Nylon Soft Grip	6.3 cm (2.5 in.)	23 x 10 cm (9 x 4.0 in.)	5.7
	L	06652	63 x 196 cm (25 x 77 in.)	570 g (1 lb. 4 oz.)	30d High Tenacity Nylon/ 70d Nylon Soft Grip	6.3 cm (2.5 in.)	28 x 11 cm (11 x 4.5 in.)	5.7
NEOAIR™ XLITE™	S	06645	51 x 119 cm (20 x 47 in.)	230 g (8 oz.)	30d High Tenacity Nylon/ 30d High Tenacity Nylon	6.3 cm (2.5 in.)	23 x 9 cm (9 x 3.3 in.)	3.2
	R	06647	51 x 183 cm (20 x 72 in.)	350 g (12 oz.)	30d High Tenacity Nylon/ 30d High Tenacity Nylon	6.3 cm (2.5 in.)	23 x 10 cm (9 x 4.0 in.)	3.2
	L	06648	63 x 196 cm (25 x 77 in.)	460 g (1 lb. 0 oz.)	30d High Tenacity Nylon/ 30d High Tenacity Nylon	6.3 cm (2.5 in.)	28 x 11 cm (11 x 4.5 in.)	3.2
WOMEN'S NEOAIR™ XLITE™	M	06646	51 x 168 cm (20 x 66 in.)	340 g (12 oz.)	30d High Tenacity Nylon Print/30d High Tenacity Nylon	6.3 cm (2.5 in.)	23 x 10 cm (9 x 4.0 in.)	3.9
NEOAIR™ TREKKER™	R	06409	51 x 183 cm (20 x 72 in.)	480 g (1 lb. 1 oz.)	50d Polyester / 75d Polyester	6.3 cm (2.5 in.)	23 x 11 cm (9 x 4.5 in.)	3.0
	L	06410	63 x 196 cm (25 x 77 in.)	660 g (1 lb. 7 oz.)	50d Polyester / 75d Polyester	6.3 cm (2.5 in.)	28 x 12 cm (11 x 4.8 in.)	3.0
	U	06408	63 x 119 cm (25 x 47 in.)	430 g (15 oz.)	50d Polyester / 75d Polyester	6.3 cm (2.5 in.)	28 x 9 cm (11 x 3.7 in.)	3.0
NEOAIR™ ALL SEASON™	M	06411	51 x 168 cm (20 x 66 in.)	510 g (1 lb. 2 oz.)	70d Nylon Diamond Rip / 75d Nylon	6.3 cm (2.5 in.)	23 x 11 cm (9 x 4.3 in.)	4.9
	R	06412	51 x 183 cm (20 x 72 in.)	540 g (1 lb. 3 oz.)	70d Nylon Diamond Rip / 75d Nylon	6.3 cm (2.5 in.)	23 x 11.5 cm (9 x 4.5 in.)	4.9
	L	06413	63 x 196 cm (25 x 77 in.)	710 g (1 lb. 9 oz.)	70d Nylon Diamond Rip / 75d Nylon	6.3 cm (2.5 in.)	28 x 12 cm (11 x 4.8 in.)	4.9
NEOAIR™ VENTURE™	S	06414	51 x 119 cm (20 x 47 in.)	490 g (16 oz.)	75d Polyester / 75d Polyester	5 cm (2 in.)	23 x 10 cm (9 x 4 in.)	1.8
	M	06415	51 x 168 cm (20 x 66 in.)	590 g (1 lb. 5 oz.)	75d Polyester / 75d Polyester	5 cm (2 in.)	23 x 11 cm (9 x 4.5 in.)	1.8
	R	06416	51 x 183 cm (20 x 72 in.)	620 g (1 lb. 6 oz.)	75d Polyester / 75d Polyester	5 cm (2 in.)	23 x 11.5 cm (9 x 4.6 in.)	1.8
	L	06417	63 x 196 cm (25 x 77 in.)	880 g (1 lb. 14 oz.)	75d Polyester / 75d Polyester	5 cm (2 in.)	28 x 12 cm (11 x 4.7 in.)	1.8
NEOAIR™ DREAM	L	06960	63 x 196 cm (25 x 77 in.)	1700 g (3 lb. 12 oz.)	75d Polyester Ripstop/ 75d Polyester	10 cm (4 in.)	40 x 25 cm (16 x 10 in.)	6.0
	M	06961	76 x 196 cm (30 x 77 in.)	2010 g (4 lb. 7 oz.)	75d Polyester Ripstop/ 75d Polyester	10 cm (4 in.)	46 x 25 cm (18.5 x 10 in.)	6.0
NEOAIR™ CAMPER	R	06962	51 x 183 cm (20 x 72 in.)	730 g (26 oz.)	75d Ribbed Polyester/ 75d Polyester	7.6 cm (3 in.)	10 x 10 x 15 cm (4 x 4 x 12 in.)	2.2
	L	06963	63 x 196 cm (25 x 77 in.)	850 g (30 oz.)	75d Ribbed Polyester/ 75d Polyester	7.6 cm (3 in.)	10 x 10 x 38 cm (4 x 4 x 15 in.)	2.2
	M	06964	76 x 196 cm (30 x 77 in.)	1020 g (36 oz.)	75d Ribbed Polyester/ 75d Polyester	7.6 cm (3 in.)	10 x 10 x 44 cm (4 x 4 x 17.5 in.)	2.2
Z LITE™ SOL	S	06669 Limon	51 x 130 cm (20 x 51 in.)	290 g (10 oz.)	Cross Linked Polyethylene	2 cm (.75 in.)	51 x 10 x 14 cm (20 x 4 x 5.5 in.)	2.6
	R	06670 Limon	51 x 183 cm (20 x 72 in.)	410 g (14 oz.)	Cross Linked Polyethylene	2 cm (.75 in.)	51 x 13 x 14 cm (20 x 5 x 5.5 in.)	2.6
Z LITE™	R	02302 Coyote	51 x 183 cm (20 x 72 in.)	410 g (14 oz.)	Cross Linked Polyethylene	2 cm (.75 in.)	51 x 13 x 14 cm (20 x 5 x 5.5 in.)	2.2
RIDGEREST™ SOLITE™	S	05206	51 x 122 cm (20 x 48 in.)	260 g (9 oz.)	Cross Linked Polyethylene	1.5 cm (.625 in.)	51 x 17 cm (20 x 6.5 in.)	2.8
	R	05207	51 x 183 cm (20 x 72 in.)	400 g (14 oz.)	Cross Linked Polyethylene	1.5 cm (.625 in.)	51 x 20 cm (20 x 8 in.)	2.8
	L	05208	63 x 196 cm (25 x 77 in.)	540 g (1 lb. 3 oz.)	Cross Linked Polyethylene	1.5 cm (.625 in.)	63 x 22 cm (25 x 8.5 in.)	2.8
RIDGEREST™ SOLAR™	R	02148	51 x 183 cm (20 x 72 in.)	540 g (1 lb. 3 oz.)	Cross Linked Polyethylene	2 cm (.75 in.)	51 x 24 cm (20 x 9.3 in.)	3.5
	L	02149	63 x 196 cm (25 x 77 in.)	740 g (1 lb. 10 oz.)	Cross Linked Polyethylene	2 cm (.75 in.)	63 x 24 cm (25 x 9.3 in.)	3.5
RIDGEREST™ CLASSIC	S	06431	51 x 122 cm (20 x 48 in.)	260 g (9 oz.)	Cross Linked Polyethylene	2 cm (.75 in.)	51 x 17 cm (20 x 6.5 in.)	2.6
	R	06432	51 x 183 cm (20 x 72 in.)	400 g (14 oz.)	Cross Linked Polyethylene	2 cm (.75 in.)	51 x 20 cm (20 x 8 in.)	2.6
	L	06433	63 x 196 cm (25 x 77 in.)	540 g (1 lb. 3 oz.)	Cross Linked Polyethylene	2 cm (.75 in.)	63 x 22 cm (25 x 8.5 in.)	2.6

THERMA-REST®: COMPARISON CHART / 19

NEOAIR™ TECHNOLOGY

CLOSED CELL MATTRESSES

Fast & Light™ Series
Trek & Travel™ Series
Camp & Comfort™ Series

THERM-A-REST®

MATRESS NAME	SIZE	SKU#	DIMENSION	WEIGHT	FABRIC INFORMATION	THICKNESS	COMPRESSED DIMENSION	R-VALUE EQUALS RELATIVE WARMTH	
PROLITE™ PLUS	S	06658	51 x 119 cm (20 x 47 in.)	430 g (15 oz.)	75 d Textured Polyester / 70 d Nylon Soft Grip	3.8 cm (1.5 in.)	28 x 10 cm (11 x 4.0 in.)	3.8	
	R	06660	51 x 183 cm (20 x 72 in.)	620 g (1 lb. 6 oz.)	75 d Textured Polyester / 70 d Nylon Soft Grip	3.8 cm (1.5 in.)	28 x 12 cm (11 x 4.8 in.)	3.8	
	L	06661	63 x 196 cm (25 x 77 in.)	850 g (1 lb. 14 oz.)	75 d Textured Polyester / 70 d Nylon Soft Grip	3.8 cm (1.5 in.)	33 x 13 cm (13 x 5.1 in.)	3.8	
WOMEN'S PROLITE™ PLUS	WR	06659	51 x 166 cm (20 x 66 in.)	580 g (1 lb. 5 oz.)	75 d Textured Polyester Print / 70 d Nylon Soft Grip	3.8 cm (1.5 in.)	28 x 12 cm (11 x 4.8 in.)	4.6	
PROLITE™	XS	06662	51 x 91 cm (20 x 36 in.)	230 g (8 oz.)	50 d Textured Polyester / 70 d Nylon	2.5 cm (1 in.)	28 x 8 cm (11 x 3.3 in.)	2.2	
	S	06663	51 x 119 cm (20 x 47 in.)	310 g (11 oz.)	50 d Textured Polyester / 70 d Nylon	2.5 cm (1 in.)	28 x 8 cm (11 x 3.3 in.)	2.2	
	R	06665	51 x 183 cm (20 x 72 in.)	460 g (16 oz.)	50 d Textured Polyester / 70 d Nylon	2.5 cm (1 in.)	28 x 10 cm (11 x 4.1 in.)	2.2	
	L	06666	63 x 196 cm (25 x 77 in.)	630 g (1 lb. 6 oz.)	50 d Textured Polyester / 70 d Nylon	2.5 cm (1 in.)	33 x 11 cm (13 x 4.5 in.)	2.2	
	WOMEN'S PROLITE™	WR	06664	51 x 168 cm (20 x 66 in.)	460 g (16 oz.)	50 d Textured Polyester / 70 d Nylon	2.5 cm (1 in.)	28 x 10 cm (11 x 4.1 in.)	2.8
	TRAIL LITE™	R	06425	51 x 183 cm (20 x 72 in.)	800 g (1 lb. 12 oz.)	75 d Polyester / 75 d Polyester	3.8 cm (1.5 in.)	28 x 15 cm (11 x 6.1 in.)	3.4
L		06426	63 x 196 cm (25 x 77 in.)	1110 g (2 lb. 7 oz.)	75 d Polyester / 75 d Polyester	3.8 cm (1.5 in.)	33 x 16 cm (13 x 6.2 in.)	3.4	
WOMEN'S TRAIL LITE™	WR	06423	51 x 168 cm (20 x 66 in.)	800 g (1 lb. 12 oz.)	75 d Polyester / 75 d Polyester	3.8 cm (1.5 in.)	28 x 15 cm (11 x 6.1 in.)	4.9	
	WR	06424	51 x 183 cm (20 x 72 in.)	860 g (1 lb. 14 oz.)	75 d Polyester / 75 d Polyester	3.8 cm (1.5 in.)	28 x 15 cm (11 x 6.1 in.)	4.9	
TRAIL PRO™	R	06421	51 x 183 cm (20 x 72 in.)	860 g (1 lb. 14 oz.)	75 d Polyester / 75 d Polyester	5 cm (2.0 in.)	28 x 17 cm (11 x 6.6 in.)	4.0	
	L	06422	63 x 196 cm (25 x 77 in.)	1120 g (2 lb. 8 oz.)	75 d Polyester / 75 d Polyester	5 cm (2.0 in.)	33 x 17 cm (13 x 6.7 in.)	4.0	
WOMEN'S TRAIL PRO™	WR	06420	51 x 168 cm (20 x 66 in.)	860 g (1 lb. 14 oz.)	75 d Polyester / 75 d Polyester	5 cm (2.0 in.)	28 x 17 cm (11 x 6.6 in.)	4.8	
TRAIL SCOUT™	S	06427	51 x 119 cm (20 x 47 in.)	400 g (14 oz.)	Urethane / Urethane	2.5 cm (1 in.)	28 x 12 cm (11 x 4.6 in.)	3.4	
	M	06428	51 x 168 cm (20 x 66 in.)	570 g (1 lb. 4 oz.)	Urethane / Urethane	2.5 cm (1 in.)	28 x 14 cm (11 x 5.4 in.)	3.4	
	R	06429	51 x 183 cm (20 x 72 in.)	630 g (1 lb. 6 oz.)	Urethane / Urethane	2.5 cm (1 in.)	28 x 14 cm (11 x 5.6 in.)	3.4	
	L	06430	63 x 196 cm (25 x 77 in.)	860 g (1 lb. 14 oz.)	Urethane / Urethane	2.5 cm (1 in.)	33 x 14 cm (13 x 5.7 in.)	3.4	
BASECAMP™	R	06974	51 x 183 cm (20 x 72 in.)	1080 g (2 lb. 6 oz.)	75 d Polyester / 75 d Polyester	5 cm (2 in.)	53 x 13 cm (21 x 5 in.)	5.0	
	L	06975	63 x 196 cm (25 x 77 in.)	1450 g (3 lb. 3 oz.)	75 d Polyester / 75 d Polyester	5 cm (2 in.)	66 x 13 cm (26 x 5.1 in.)	5.0	
	XL	06976	76 x 196 cm (30 x 77 in.)	1670 g (3 lb. 11 oz.)	75 d Polyester / 75 d Polyester	5 cm (2 in.)	79 x 13 cm (31 x 5.3 in.)	5.0	
LUXURY MAP™	R	06971	51 x 183 cm (20 x 72 in.)	1480 g (3 lb. 4 oz.)	75 d Polyester / 75 d Polyester	7.6 cm (3 in.)	53 x 16 cm (21 x 6.2 in.)	6.8	
	L	06972	63 x 196 cm (25 x 77 in.)	1900 g (4 lb. 3 oz.)	75 d Polyester / 75 d Polyester	7.6 cm (3 in.)	66 x 16 cm (26 x 6.4 in.)	6.8	
	XL	06973	76 x 196 cm (30 x 77 in.)	2330 g (5 lb. 2 oz.)	75 d Polyester / 75 d Polyester	7.6 cm (3 in.)	76 x 17 cm (30 x 6.5 in.)	6.8	
MONDOKING™	L	06969	63 x 196 cm (25 x 77 in.)	2430 g (4 lb. 11 oz.)	75 d Polyester / 75 d Polyester	10 cm (4 in.)	66 x 18 cm (25 x 7 in.)	11.4	
	XXL	06970	79 x 203 cm (31 x 80 in.)	2720 g (6 lb.)	75 d Polyester / 75 d Polyester	10 cm (4 in.)	79 x 18 cm (31 x 7 in.)	11.4	

SELF-INFLATING MATTRESSES

