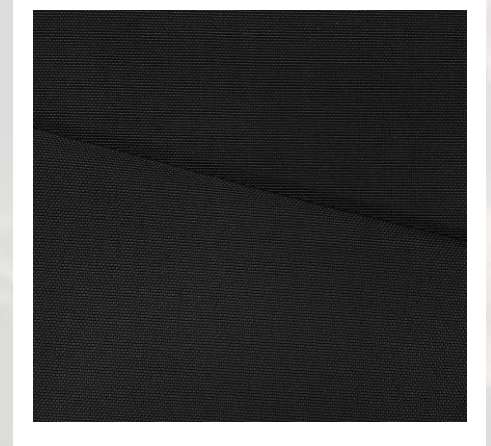


MACKINTOSH® TOPGUN LITE

100% Polypropylene

145 gsm | Woven Plain

Fabric Name:	MACKINTOSH® TOPGUN LITE
Model:	22F068-2
Color:	Black
Denier:	225D
Fabric Weight:	145 gsm
Composition:	100% Polypropylene
Width:	60
Weave:	Woven Plain
Application:	Cycling, Camping, and Backpacks: Backpacks, Gear
Warp:	225D DTY
Weft:	225D FDY



Product Characteristics

Test Description	Protocol	Results
Dimensional Stability to Washing	ISO 3759-2011	TBD
Abrasion Resistance	ISO 12947-2	11000
Pilling Resistance	ASTM D4970 ISO 12945-2	4.5 TBD
Tear Strength Warp/Weft	ASTM D2261	16.6lbs/14.6lbs
Color Fastness to Washing	ISO105-C06	4<>5
Color Fastness to Rubbing	ISO105-X12	4<>5
Color Fastness to Light	ISO105-B02	7-8 (800 hours)
Rain Test	AATCC 35	<0.1
Spray Test	AATCC 22	90<>100
Water Repellency	ISO 4920	5
Water Repellency After Wash	ISO 9865/6330	4.5
Hydrostatic Head Pressure (Before/After Wash)	AATCC 127	624 TBD
Hydrostatic Head Pressure (Before/After Wash)	JIS L 1092	TBD TBD
Bundesmann Average Water Absorption	ISO 9865	0.026
Bundesmann Average Visual Grade	ISO 9865	5
Bundesmann Wetting to Underside	ISO 9865	No
Bundesmann Average Penetration	ISO 9865	0

HIGG MSI		CO2 Emissions (CO2e/kg)		7.06	
Global Warming	Eutrophication	Water Scarcity	Resource Depletion	Chemistry	
8.95	8.95	0.852	11	6.83	

www.axroma.com

TAIWAN AXROMA TECHNICAL TEXTILES CO., LTD.
No. 636 Hsi-Ping Road, Douliou City
Yunlin Hsien, 64057, Taiwan
T: 886-5-5511008 F: 886-5-5511010

AXROMA TECHNICAL TEXTILES (LIANYUNGANG) CO., LTD.
No. 25 YuZhou Road (South), Haizhou Development Zone
Lianyungang City, JiangSu Province 222062 China
T: 86-518-85910058 F: 86-518-85910057