

TECHNICAL PARAMETERS OF BLACK SHIELD FR

TECHNICAL SPECIFICATION		
DESCRIPTION	SPECIFICATION	STANDARD
Product type	Knitted	PN-P 04604
Material name and No.	BLACK SHIELD FR 101782 WPL/OG/LAM2/T	
Weight (g/m ²)	274 ± 14	PN-EN ISO 3801
Thickness	0,52 mm	PN-EN ISO 5084
Width available (cm)	160 / 320	PN-EN 1773
Tensile strenght (N) (warp direction)	459	PN-EN ISO 13934-1
Tensile strenght (N) (weft direction)	650	PN-EN ISO 13934-1
Elongation at break (%) (warp direction)	76	PN-EN ISO 13934-1
Elongation at break (%) (weft direction)	89	PN-EN ISO 13934-1
Tear strength (N) (warp direction)	27	PN-EN ISO 13937-2
Tear strength (N) (weft direction)	27	PN-EN ISO 13937-2
Dimensional changes	≤ 2% below 200°C, 45	
Fire – repellent class	B1	DIN 4102-1-B1
Recommended fixing temperature	190°C - 210°C, 1-2 min.	
Recommended sublimation temperature	190°C - 210°C, 1-2 min.	
Yellowing temp.	ΔE < 1,5, when heating temperature ≥ 210°C	
Standard roll lenght	50 m	



Certyfikat nr 582/S/2022, Certyfikat nr 582/L/2022,
Certyfikat nr 582/B/2022, Certyfikat nr 582/A/2022

Certyfikat nr W-91/9/2020

Miranda Sp. z o.o.
ul. Jedwabnicza 1
62-700 Turek

tel.: +48 63 28 00 100
fax: +48 63 28 00 111

www.miranda.pl
miranda@miranda.pl

LUBAWAGROUP

Rejestr przedsiębiorców: Sąd Rejonowy Poznań - Nowe Miasto i Wilda w Poznaniu, IX Wydział Gospodarczy KRS
KRS: 0000135145; NIP: 668-17-12-330; REGON: 311089763; Kapitał zakładowy: 8 824 200 PLN
mBank S.A. 71 1140 1993 0000 5315 4000 1001

PRINTING PARAMETERS		
TYPE OF PRINTING	INTENDENT USE	COMMENTS
DIRECT SUBLIMATION	YES	-
TRANSFER SUBLIMATION	YES	-

The technical values above are average values with a tolerance of +/-5% and as follows are the result of laboratory tests or technical calculations in accordance with applicable standards/ regulations. Our products are constantly adapted to market needs and are therefore subject to constant evolution. Miranda Sp. z o.o. reserves the right to modify this data a tany time, and it is the customer's responsibility to check whether the data used is up to date. The customer is responsible for the proper use of the fabric in accordance with its intended purpose. Miranda Sp. z o.o. bears no responsibility for errors resulting from installation, commissioning and use of the delivered media contrary to its intended purpose and the type of recommended printing.



Certyfikat nr 582/S/2022, Certyfikat nr 582/I/2022,
Certyfikat nr 582/B/2022, Certyfikat nr 582/A/2022



Certyfikat nr W-91/9/2020



Miranda Sp. z o.o.
ul. Jedwabnicza 1
62-700 Turek

tel.: +48 63 28 00 100
fax: +48 63 28 00 111

www.miranda.pl
miranda@miranda.pl

LUBAWAGROUP

Rejestr przedsiębiorców: Sąd Rejonowy Poznań - Nowe Miasto i Wilda, Poznań, IX Wydział Gospodarczy KRS
KRS: 0000135145; NIP: 668-17-12-330; REGON: 311089763; Kapitał zakładowy: 8 824 200 PLN
mBank S.A. 71 1140 1993.0000 5315 4000 1001