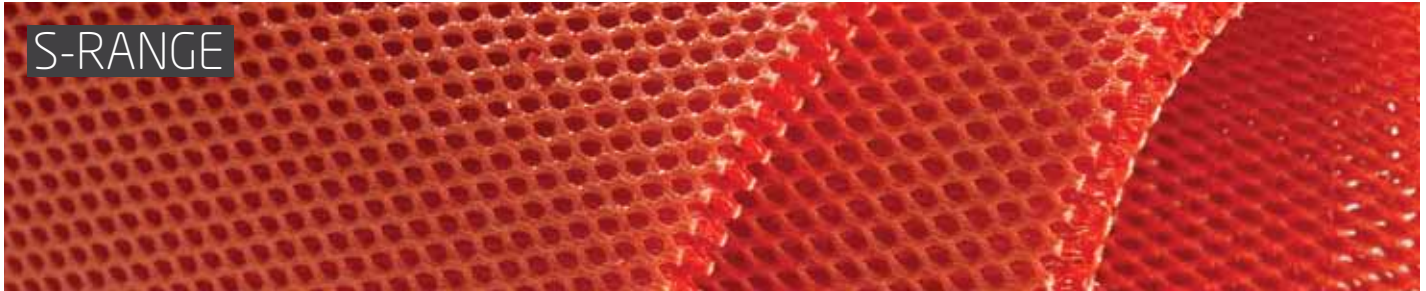


DEFLEXION™ IMPACT PROTECTION TEXTILES SELECTION GUIDE

Breathable
Flexible
Washable
Durable
Easy to Use

**COMFORTABLE
IMPACT
PROTECTION**

DEFLEXION™ brand from Dow Corning brings you a range of silicone impact protection technologies for a diverse range of applications. All products are available on rolls, allowing the easy creation of high-performance protective apparel and personal protective equipment.



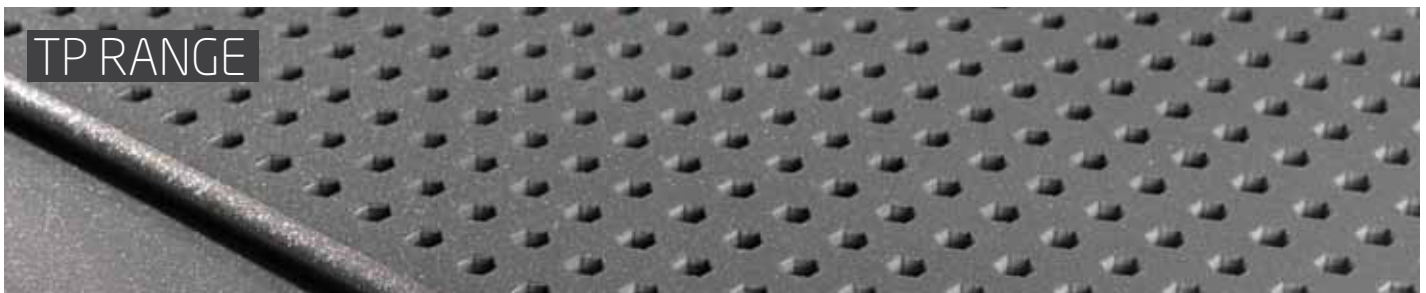
A patent pending impact protection textile based on three dimensional polyester spacer textiles impregnated with specially formulated silicones.

Features

- ☒ Good impact performance
- ☒ Durable
- ☒ Flexible
- ☒ Naturally breathable
- ☒ Washable
- ☒ Performance at low to high temperatures (-20°C to +40°C)

Potential Uses

Apparel where good fit and comfort is important for the wearer. Especially suitable if the wearer gets hot or needs to wear protection for long periods of time such as in sport. The S-Range can be fully incorporated into garments.



Patent pending impact protection technology based on expanded thermoplastic rubber formulated with special silicones.

Features

- ☒ Superior impact performance
- ☒ Thinner and/or lighter than alternative solutions
- ☒ Flexible at low temperatures (-10°C)
- ☒ Perforations to aid airflow
- ☒ Washable
- ☒ Performs at low temperatures (-18°C)

Potential Uses

Body armour or equipment which requires thin or lightweight superior protection. The TP-Range materials can be molded to create three dimensional shapes.

TYPICAL PHYSICAL PROPERTIES

Product	S-RANGE	
	S5-004	S7-005
Color	Red	Red
Weight, kg/m ²	1.3	1.9
Thickness, mm	5	7
Product Form	3D spacer textile	3D spacer textile
Availability	25 linear meter rolls	25 linear meter rolls

The above data is not intended for product specifications

Product	TP RANGE			
	TP3-001	TP3-002	TP8-001	TP8-002
Color	Grey	Grey	Grey	Grey
Weight, kg/m ²	1.0	1.35	2.7	3.6
Thickness, mm	3	3	8	8
Density, g/cm ³	0.4	0.5	0.37	0.5
Format	perforated sheets	sheets	perforated sheets	sheets
Availability	50 linear meter rolls	50 linear meter rolls	20 linear meter rolls	20 linear meter rolls

The above data is not intended for product specifications

PERFORMANCE DATA

Product	S-RANGE				TP RANGE							
	S5-004		S7-005		TP3-001		TP3-002		TP8-001		TP8-002	
Impact Standard	# layers	Transmitted Force	# layers	Transmitted Force	# layers	Transmitted Force	# layers	Transmitted Force	# layers	Transmitted Force	# layers	Transmitted Force
EN1621-1	3	22 kN	2	28 kN	3	26 kN	3	24 kN	1	27 kN	1	25 kN
EN1621-1 modified to 20 Joules	1	29 kN	1	24 kN	1	29 kN	2	19 kN	1	13 kN	1	12 kN
EN1621-2	n/a		3	18 kN	n/a		n/a		2	11 kN	2	13 kN
EN13061	2	1.4kN	n/a		n/a		n/a		1	0.7 kN	1	0.7 kN
Compression Data	# layers	Value	# layers	Value	# layers	Value	# layers	Value	# layers	Value	# layers	Value
ASTM D575 25% compression			2	7.78lb	5	15.76 lb	4	29.8lb	2	19.28lb	3	58.8lb
ASTM D395 compression set after 22hr			2	1.76%	5	1.62 %	4	2.59%	2	1.14%	2	3.41%

Footnotes

EN1621-1: 1998 = European motorcycle limb protector impact standard. Impact Energy = 50 Joules . Maximum allowable transmitted force = 35 kN.
 EN1621-2: 2003 = European motorcycle back protector impact standard. Impact Energy = 50 Joules. Maximum allowable transmitted force = 18 kN.
 EN13061: 2001 = European soccer shinguard impact standard. Impact Energy = 2 joules. Maximum transmitted force = 2kN

Learn More

To request a sample or for more information about using Dow Corning impact protection textiles please email deflexion@dowcorning.com

Contact Information

Web: deflexiontechnology.com

E-mail: deflexion@dowcorning.com

North America:	+1 866 793 7224 (Toll-free)
Latin America:	+55 19 3887 9112 (Spanish)
Europe:	+49 611 237469 (English)
Greater China:	+86 21 37747922 (Chinese)
ASEAN-ANZ:	+66 2 6346750 (English)
Korea:	+82 2 6411 7600 (Korean)
India:	+91 22 66946868 (English)

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