

D3O®

# FF LITE

## FOR SPORTS APPLICATIONS

BODY PROTECTION



D3O®

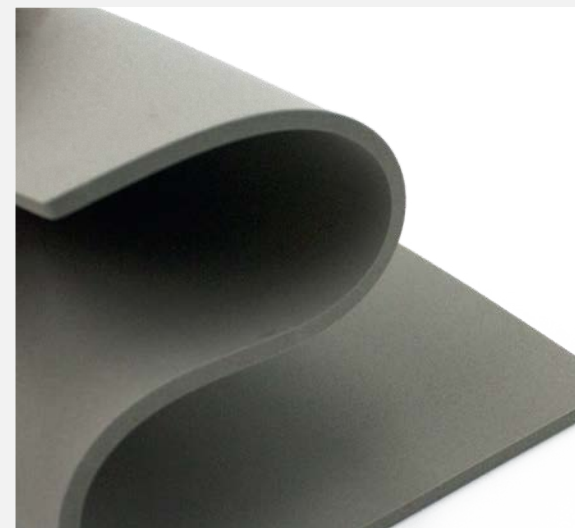
PROTECTED BY  
D3O®

D3O® LITE is available for simple integration of D3O® proprietary technology into product ranges.

- Soft and flexible material
- Designed for markets where performance properties, such as temperature stability and flexibility, are key considerations
- Frequently used for knee guards and body armour
- Suitable for multiple re-forming techniques including thermoforming and die cutting
- Simple integration means the product development process can be greatly accelerated



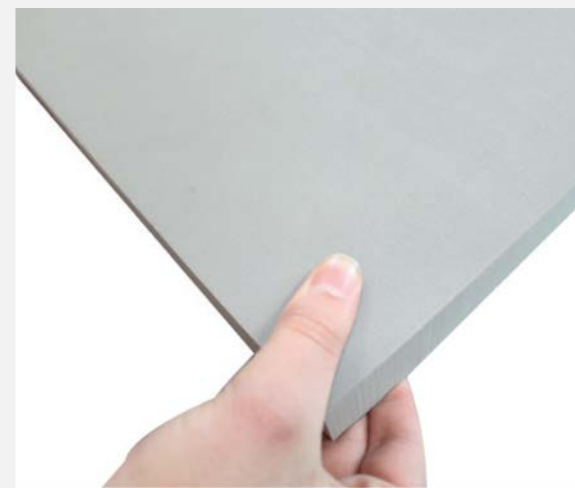
Available in a range of thicknesses



Low profile & flexible

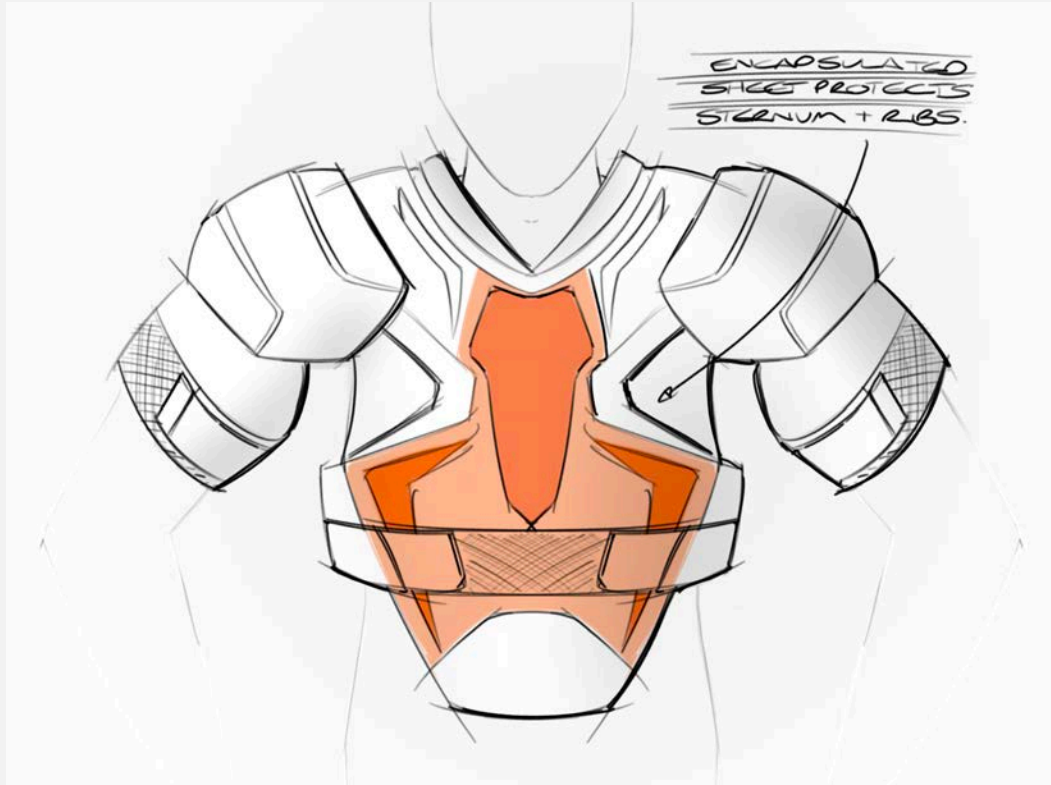


Easy to die-cut for simple integration



Soft with cushioning

# FF LITE SUGGESTED APPLICATIONS

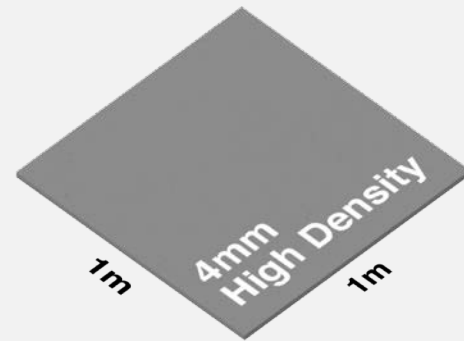
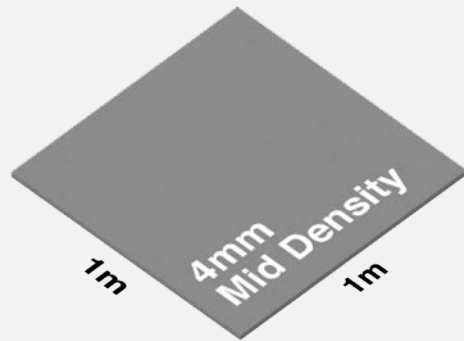
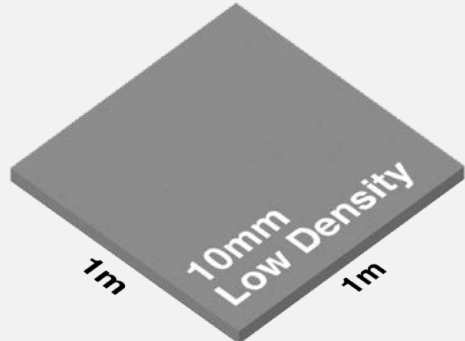
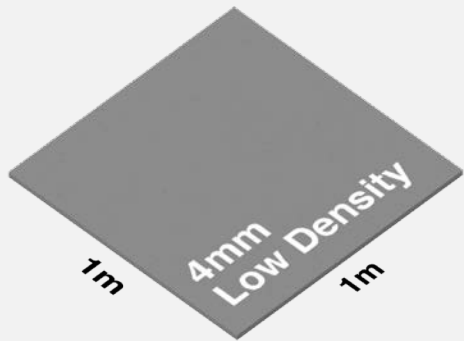


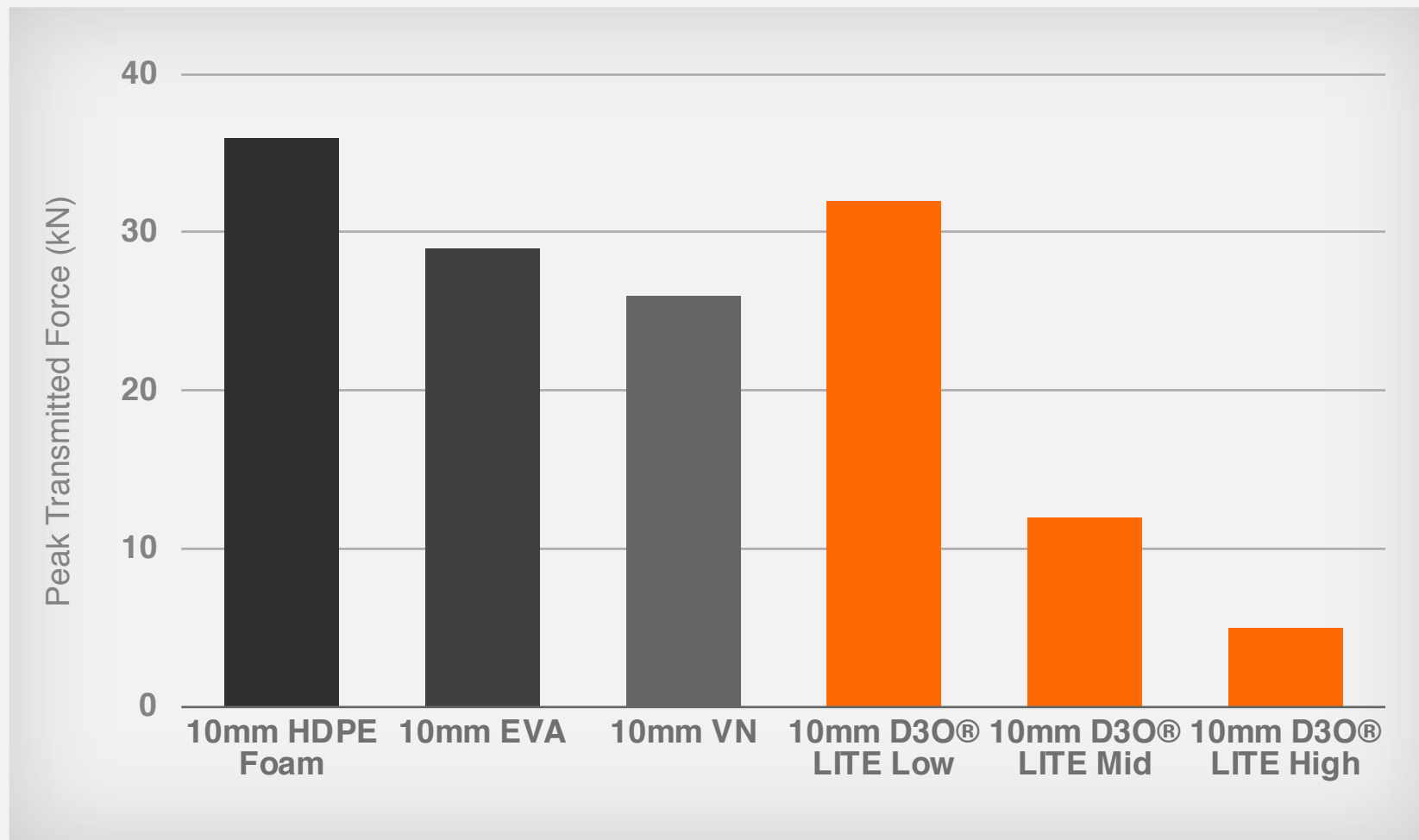
**BODY PROTECTION**

# FF LITE

## AVAILABLE THICKNESSES

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**FF LITE IMPACT PROTECTION**

**Impact Energy: 10J**  
The lower the Peak Transmitted Force, the higher the impact protection

# FF LITE PROPERTIES

Product Name	Units	Method Reference	Low Density Sheet 4mm	Low Density Sheet 10mm	Mid Density Sheet 4mm	High Density Sheet 4mm
Product Code			13283	13286	13284	13285
Colour			Cool Grey	Cool Grey	Cool Grey	Cool Grey
Dimensions	mm		1000 x 1000	1000 x 1000	1000 x 1000	1000 x 1000
Thickness	mm		4	10	4	4
Weight	g		480.0	1200.0	880.0	1200.0
Hardness	Asker C	ASTM D2240 - 05 (2010)	32.0	32.0	55.0	65.0
Density	g/cm <sup>3</sup>	ISO 845: 2009	0.1	0.1	0.2	0.3
Material Code			FF006	FF006	FF007	FF008
Material Type			Formable Foam	Formable Foam	Formable Foam	Formable Foam
Material Tensile Strength	N/mm <sup>2</sup>	ISO 1798:2008	1.4	1.9	2.2	1.4
Material Elongation at Break	%	ISO 1798:2008	189.1	212.0	195.7	159.4
Material Split tear strength	N/mm	SATRA TM65	0.6	1.6	N/A	1.8
Material Flexural Modulus	MPa	DTS052	1.4	3.1	5.7	1.6
Material Tensile Modulus	MPa	DTS061	5.7	1.5	3.3	4.7
Material Compression Set	%	DTS005	31.5	12.8	13.0	25.4
Material Water absorbency	%	DTS028	14.0	4.0	3.0	12.0



FS 635493



# FURTHER INFORMATION

Values shown represent typical product characteristics. For full details including material properties and product tolerances, please request SOQ document from D3O representative. The information provided is not intended to and does not create any warranties, expressed or implied, including any warranty of merchantability of fitness for a particular purpose. In accordance with the Company's policy of continuous improvement, D3O reserves the right to apply such improvements to its products and materials without notice. This data sheet shall not be reproduced or amended without the written consent of Design Blue Limited.

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