

D3O® FORMABLE FOAMS



D3O uses a combination of patented, patent-pending and proprietary technologies to make rate sensitive, soft, flexible materials with high shock absorbing properties.

Our extensive material portfolio is compatible with many different production processes, with each material grade formulated and tuned to deliver specific performance properties.

Our current materials portfolio falls into four groups: Set Foams (Sf), Formable Foams (Ff), Set Elastomers (Se) and Formable Elastomers (Fe).

The **D3O® Formable Foam** portfolio includes **D3O® LITE** and offers lightweight, comfortable and temperature stable cushioning and protection.

The added benefit of **D3O® Formable Foam** is that the shape of the material can be re-shaped to offer a versatile solution for a wide range of applications. Ideal for lower impact energies.

D3O® Formable Foams

Code name	Synonym	Density range	Hardness range	Tensile strength	Elongation at break	Split tear strength	Compressive strength	Flexural modulus	Tensile modulus	Deceleration 4.5 J	Energy return 4.5 J	Compression set	Water absorbency	Impact protection
FF001	LITE A	90 - 110	32	1.30	250	1.02	70	14.7	1.24	20	44	29	2	27.4
FF002	LITE B	100 - 110	35	1.40	240	1.21	90	19.1	1.69	19	43	26	1	28.3
FF003	LITE C	180 - 190	53	2.00	330	1.91	140	33.1	2.75	15	35	21	1	23.3
FF004	LITE D	200 - 220	60	2.20	320	2.90	190	55.9	4.67	15	33	17	1	16.0
FF005	LITE E	260 - 290	68	2.50	310	2.77	360	79.4	5.48	15	33	12	0	6.6
Method reference*		ISO 845: 2009	ASTM D2240 - 05 (2010)	ISO 1798:2008	ISO 1798:2008	SATRA TM65	ASTM D3575-14D	DTS052	DTS061	DTS002	N/A	BS EN ISO 1856:2001	ISO 62: method 1	EN 1621 (10 J)
Units		kg/m3	Asker C	N/mm2	%	N/mm	kPa	MPa	MPa	g	%	%	%	kN

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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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