

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 six groups: Set Foams (Sf), Formable Foams (Ff), Recycled Foams (Rf), Set Elastomers (Se), Formable Elastomers (Fe) and Impact Additives (iA).

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	Hardness	Hardness	Tensile strength	Split tear strength	Elongation at break	Compressive strength	Flexural modulus	Tensile modulus	Deceleration 4.5 J	Energy return 4.5 J	Compression set	Water	Impact protection (10 J)	Impact protection (20 J)	Impact protection (30 J)	Accelerated ageing (heat)
FF006	LITE Low	114.0	30.9	32.0	1.4	0.6	189.1	780.0	1.4	0.83	N/A	N/A	31.5	14.0	32.0	N/A	N/A	N/A
FF007	LITE Mid	252.0	55.0	55.0	1.9	1.6	212.0	1540.0	3.1	2.29	49.2	52	12.8	4.0	12.0	30.0	N/A	N/A
FF008	LITE High	324.0	65.9	65.0	2.2	N/A	195.2	2450.0	5.7	4.52	33.1	46	12.8	3.0	5.0	22.0	34	N/A
FF009	LITE Orange	127.0	34.4	34.0	1.4	1.8	159.4	1060.0	1.6	0.98	N/A	N/A	25.4	13.0	29.0	N/A	N/A	N/A
Method reference*		ISO 845:2009	ASTM D2240 - 05 (2010)	ASTM D2240 - 05 (2010)	ISO 1798:2008	SATRA TM65	ISO 1798:2008	ASTM D3575-14D	DTS052	DTS061	DTS002-2	ASTM F614-99 (2006)	EN ISO 1856	DTS028	EN 1621:1 (2.5 Kg, 10J)	EN 1621:1 (2.5 Kg, 20J)	EN 1621:1 (5Kg, 30J)	BS EN ISO 2440:2000 (ageing)
Units		kg/m ³	Shore OO	Asker C	N/mm ²	N/mm	%	kPa	MPa	MPa	g	%	%	%	kN	kN	kN	kN

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*Values shown represent typical product characteristics.