

D3O® SET ELASTOMERS



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).

D3O® Set Elastomer grades can be engineered into structures and designs that offer unrivalled shock absorption and achieve a thinner, more detailed impact protection layer.

D3O® Set Elastomers are strong and versatile. They can be used in various products and applications, particularly those where low profile or flexibility in the cold are important.

D3O® Set Elastomers

Code name	Synonym	Density	Hardness	Resiliency	Tensile Strength	Trouser tear strength	Elongation at Break	Flexural modulus	Tensile modulus	Water absorbency	5 J Impact	10 J Impact	Accelerated ageing (heat) (10J)	Accelerated ageing (humidity) (10J)
SE004	BOHM	1196.0	56.3	11.0	7.9	6.9	499.5	0.9	2.9	5.0	2.5	4.3	N/A	34.1
SE005	Impact Print™ (Gloves)	1130.0	51.2	-	5.9	7.7	830.0	3.6	1.5	3.7	2.7	4.5	1.34*	68.1
SE006	Impact Print™ (Limb)	1042.0	60.6	-	10.0	6.6	378.7	5.9	5.6	8.0	3.3	5.0	2.7	-2.2
Method reference*		ISO 845:2009	ASTM D2240 - 05 (2010)	ISO 8307	EN ISO 37-2	ASTM D624	EN ISO 37-2	DTS052	DTS061	DTS028	DTS059	DTS059	BS ISO 2440:2000 (ageing)**	BS EN ISO 2440:2000 (ageing)**
Units		kg/m ³	Shore A	mm	MPa	N/mm	%	MPa	MPa	%	kN	kN	%	%

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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.

*Values shown represent typical product characteristics.

**SE005 & SE006 slabs tested were aged at ageing conditions for accelerated heat ageing. They were tested to 100 C and 80 C respectively.