

D30® FORMABLE ELASTOMERS



D30 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), Recycled Foams (Rf), Set Elastomers (Se), Formable Elastomers (Fe) and Impact Additives (iA).

With similar impact protection and shock absorption capabilities to **D30® Set Elastomer** offering, the **D30® Formable Elastomer** range has been developed to be compatible with injection moulding or similar processes.

D30® Formable Elastomers

Material Name	*Density (kg/m3)*	*Hardness (Shore A)*	*5J Impact (kJ)*	*10J Impact (kJ)*	*Tensile Strength at Break (MPa)*	*Tensile Elongation at Break (%)*	*Tear Strength (N/mm)*	*Abrasion Resistance (mg/100 cycles)*	*Transparency (%)*	*Plant-based content (%)*	Suitable for solid colours	Suitable for clear colours
Method reference*	ISO 845:2009	*ASTM D2240 - 05 (2010) *	DTS011	DTS011	ISO 37:2017 Type 1	ISO 37:2017 Type 1	ASTM D624 Type T	ISO 5470-1	DTS086			
Test Condition		3s			500mm/min	500mm/min	50mm/min	H18, 9.8N				
D30®	1115.0	60.5	3.7	8.3	3.6	522.9	6.9	15.9	-	-	✓	-
D30® Crystalex™	1120.0	82.7	4.6	6.9	10.4	248.9	17.6	9.3	88.0		✓	✓
D30® Bio	1223.0	92.5	4.6	6.6	20.7	499.3	8.4	0.3	-	45.0	✓	
D30® Tactical™	1110.0	78.8	3.0	5.3	9.8	650.0	22.2	20.4	-	-	✓	-

©2022 Design Blue Limited. All rights reserved.

The shelf life of the TPE granules is 12 months from delivery if storage instructions are observed and the product is stored in the unopened original D30 TPE packaging. Store in dry conditions at room temperature (15–30 °C) away from heat sources and direct sunlight.

For full details including material properties and product tolerances, please request SOQ document from D30 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, D30 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.