

D30® MATERIAL MATRIX

	Available Sheet Thicknesses (mm)	Impact performance - transmitted force (kN)*				Density (Gr/cm ³)	Temperature stability (stiffness)***				Example Application
		5 J	10 J	20 J	50 J		-10°C	0°C	23°C	40°C	
ST	3, 4, 6	n/a	3.8	6.3	16.2	0.4-0.55	0.01	0.02	0.91	1.43	Back, chest, and knuckle protectors
XTi	3, 4, 6	n/a	3.5	5.8	17.7	0.35-0.55	0.06	0.11	0.75	1.10	Limb protectors (knee, elbow, shoulder and hip), knuckle protectors and ankle guards
Aero	2, 3, 4, 6, 8, 10	n/a	3.3	5.6	27.1	0.26 -0.27	0.03	0.04	1.11	3.03	Palm padding, back protectors and helmet liners
Decell B	3, 4, 6, 8, 10	n/a	6.1	14.6	n/a	0.28 - 0.32	0.63	0.49	0.98	1.18	Insoles, inserts, midsoles and strobol boards
Decell Trust	Application dependent	n/a	3.4	9.2	29.8	0.25 - 0.35	0.21	0.16	0.85	1.05	Helmet pads, knee pads and elbow pads
SE004	Application dependent	7.2	n/a	n/a	n/a	1.1	0.05	n/a	0.33	0.42	Back-of-hand glove parts
LITE C†	4, 10, 12	n/a	16	n/a	n/a	0.18	0.20	0.21	0.30	0.39	Sheets (processed and unprocessed), knee pads and elbow pads
Pulse	Application dependent	n/a	6.9	14.7	n/a	0.31 - 0.35	0.10	0.36	0.42	0.41	Midsoles and forefoot inserts
TPE 1	Application dependent	3.6**	8.4**	n/a	n/a	1.1	n/a	n/a	n/a	n/a	Smartphone and tablet cases
TPE 2	Application dependent	3.0**	5.4**	n/a	n/a	1.1	n/a	n/a	n/a	n/a	Smartphone and tablet cases
D30® powered by DuPont™ Hytrel®	Application dependent	4.0**	5.9**	n/a	n/a	1.12	n/a	n/a	n/a	n/a	Snow sports equipment and smartphone cases
Impact Additive (iA)	Application dependent	8.2	n/a	n/a	n/a	1.1	0.24	0.24	0.39	0.47	Back-of-hand TPR bumpers

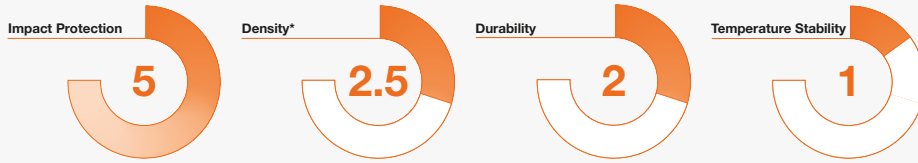
*Lower value represents better impact protection. 5 J = 5 mm samples. 10 J, 20 J, 50 J = 10 mm samples.

**Test uses 6 mm samples and different strikers/anvils. Test method not comparable with standard tests of the same energy.

***The higher the number, the more flexible the material. Temperature stability = $\frac{1}{\text{stiffness}}$.

† Table shows LITE C data only as representation of LITE A-E range. Please speak to your Account Manager for data specific to LITE A, B, D and E.

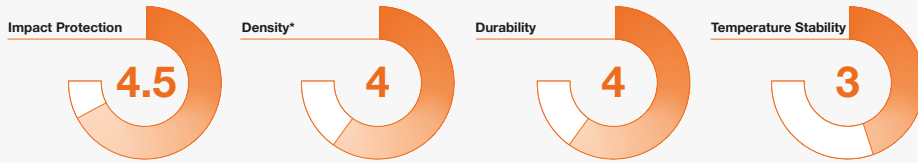
ST - SF001



Designed for markets, such as motorcycle and sports, where high impact energies are experienced.



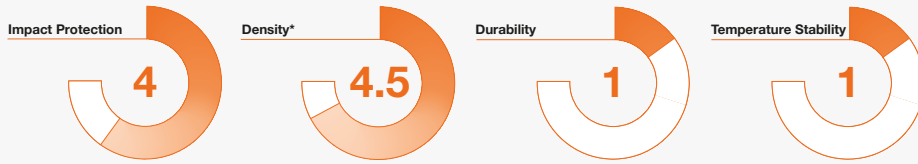
XTi - SF005



Soft, flexible and lightweight impact protection frequently used for motorcycle limb protectors and sport.



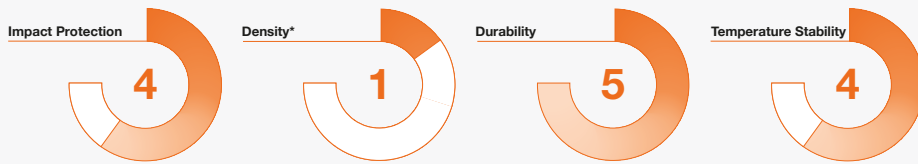
Aero - SF010



A more lightweight version of ST, frequently used for helmet liners and back protectors.



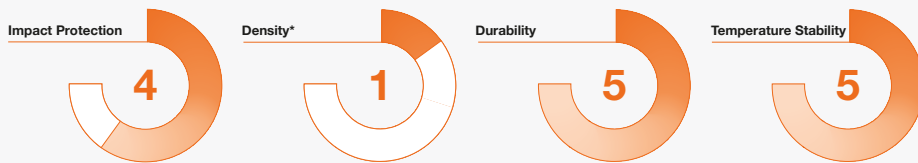
SE004



SE004 can be engineered into structures and designs that offer unrivalled shock absorption and achieve a thinner, more detailed impact protection layer.



TPE - FE002

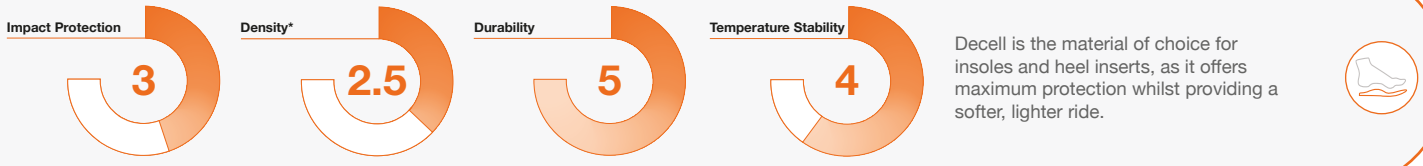


The D30[®] Formable Elastomer range has been developed for injection moulding, specifically consumer electronics cases.

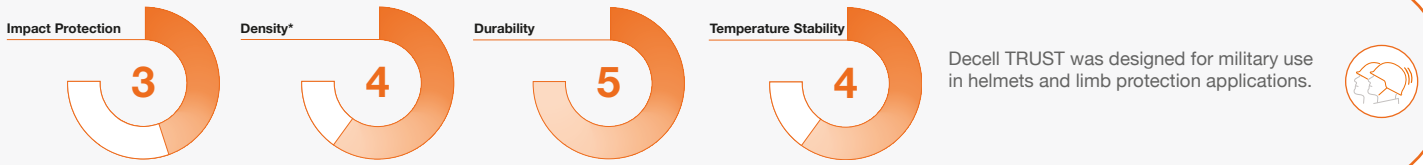


*The higher the density score the less dense the material is (5 is the least dense material).

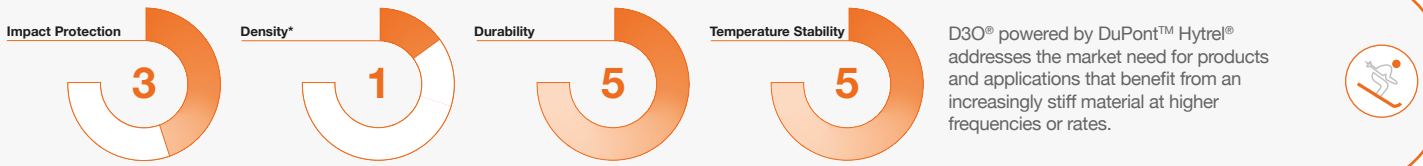
Decell B - SF007



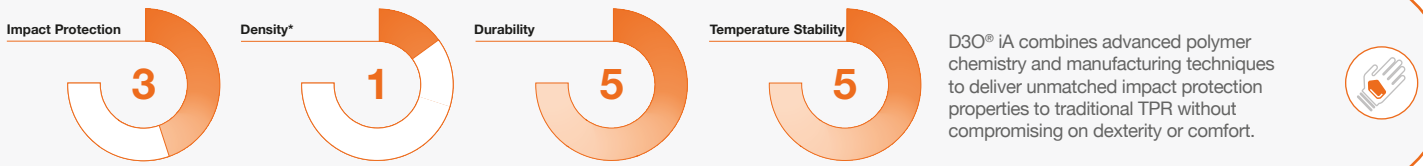
Decell TRUST - SF019



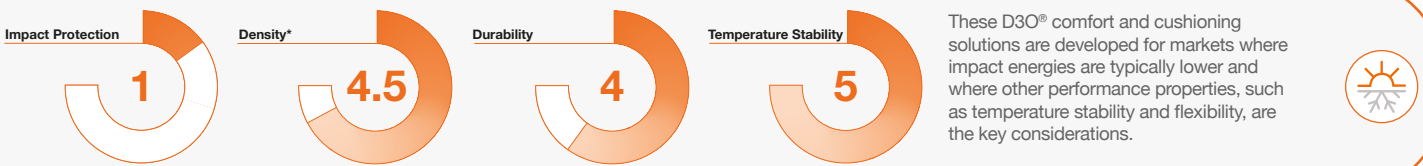
D30[®] powered by DuPont™ Hytrel[®] - FE003



Impact Additive (iA)



LITE Foams A-E - FF001 - FF005



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