HOW TO CHOOSE ELASTOMERIC MATERIALS

	BASF Ultrasint TPU01	ESTANE 3D TPU M95A	HP 3D HR TPA enabled by Evonik
IDEAL FOR	**Best balance on** rebound resilience and compression set Good **surface quality** and smoothness Ability to do lattice structures	**Harder TPU** Higher **tear strength** **Easy unpack** and cleaning Ability to do lattice structures	Good **rebound resilience**, **20% lower weight** & **same impact at -40ºC** Easy and **fast workflow** Nice color uniformity and small features
APPLICATIONS	Consumer goods such as sports equipment, footwear or wearables and gadgets. Industrial components, pipes and electronic equipment.		Industrial – Pipes, EOAT Sports equipment – Helmets, bike seats, goggles, winter sport applications Automotive prototypes
COMPATIBILITY	**Only** available with the 3D Printing Solutions HP Jet Fusion **5200** 3D Printing Solution	**Only** available with the 3D Printing Solutions HP Jet Fusion **4200** 3D Printing Solution	**Only** available with the 3D Printing Solutions HP Jet Fusion **4200** 3D Printing Solution

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PROPERTIES

		HP 3D HR TPA enabled by Evonik Full bucket		BASF Ultrasint™ TPU01 Full bucket		Lubrizol ESTANE® 3D TPU M95A Half bucket	
		XY	Z	XY	Z	XY	Z
MECHANICAL PROPERTIES	HARDNESS SHORE A (WITHOUT LATTICE)	91	91	88	88	95	95
	TENSILE STRENGTH / MPA	10	8	9	7	16 (18%)	7 (26%)
	ELONGATION AT BREAK / %	370	160	213	137	370 (17%)	90 (38%)
	TEAR RESISTANCE (GRAVES) /KN/M	50	40	33	45	109 (16%)	53 (28%)
	REBOUND RESILIENCE / %	72		63	63	52	53
	COMPRESSION SET (23ºC, 24H) / %	40		20	20	39 ±2.4	
REUSABILITY RATIO		80%		80%		80%	
WORKFLOW		COLD UNPACK FULL BUCKETS		HOT UNPACK FULL BUCKETS		COLD UNPACK HALF BUCKETS	

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