

**Technical Data Sheet**

**Type:** Estane® 2102-65D is a thermoplastic polyurethane elastomer.

Properties	Test Method	English		S.I.	
		Values <sup>1</sup>	Units	Values <sup>1</sup>	Units
<b>Physical<sup>(1)</sup></b>					
Hardnes, Shore D	ASTM D 2240	65	D	65	D
Specific Gravity	ASTM D 792	1.22		1.22	
Melt Flow Rate, 224°C/2160g	ASTM D 1238	-	g/10min	49	g/10min
Taber Abrasion Resistance, 1000g, 1000 cycles; H-22 wheel (coarser)	ASTM D 1044	-	mg	120	mg
Mold Shrinkage, Transverse direction	ASTM D 955	0.7	%	0.7	%
Mold Shrinkage, Flow direction	ASTM D 955	0.7-0.8	%	0.7-0.8	%
<b>Mechanical<sup>(2)</sup></b>					
Tensile Modulus -50% elongation -100% elongation -300% elongation	ASTM D 412	2400 2900 4500	psi psi psi	16.5 20.0 31.0	MPa MPa Mpa
Ultimate Elongation	ASTM D 412	390	%	390	%
Ultimate Tensile Strength	ASTM D 412	6400	psi	44.1	Mpa
Elongation Set After Break	ASTM D 412	110	%	110	%
Tear Strength, Die C	ASTM D 624	1500	PLI	263	KN/m
Compression Set, Method B -22 hrs @ 25°C -22 hrs @ 70°C	ASTM D 395	30 40	% %	30 40	% %
Flexural Modulus	ASTM D 790	37,000	psi	225	Mpa
<b>Thermal</b>					
Vicat Softening Point (120°C/hr, 9.8N)	ASTM D 1525	228	°F	142	°C
CLTE, in-flow	ASTM D 696	66.6	in/in/°F	120	mm/mm/°C
<b>Processing Conditions (Typical)</b>					
Drying Temperature (air dew point <-40C)		210-230	°F	99-110	°C
Melt Temperature (Molding)		410-430	°F	210-221	°C
Mold Temperature		60-140	°F	16-60	°C

<sup>1</sup>Typical properties; not to be construed as sales specifications. Fabrication conditions, part design, additives, processing aids, finishing materials and use conditions can all affect the integrity, performance and regulatory status of finished goods.

<sup>2</sup>Tests conducted on 0.126 inch (3.2mm) injection molded specimen, unannealed, unless noted.

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