

Technical Data Sheet

Type: Estane[®] 2103-65D is a thermoplastic polyurethane elastomer.

Feature: Load bearing capacity.

Properties	Test Method	English		S.I.	
		Values ^t	Units	Values ^t	Units
Physical ⁽¹⁾					
Shore Hardness	ASTM D 2240	64	D	64	D
Specific Gravity	ASTM D 792	1.17		1.17	
Melt Flow Rate, 190°C/8.7kg	ASTM D 1238	-	g/10min	35	g/10min
Taber Abrasion Resistance, 1000g, 1000 cycles; H-22 wheel (coarser)	ASTM D 1044	-	mg	90	mg
Mold Shrinkage, Transverse direction	ASTM D 955	0.5-0.9	%	0.5-0.9	%
Mold Shrinkage, Flow direction	ASTM D 955	0.6-1.0	%	0.6-1.0	%
Mechanical ⁽²⁾					
Tensile Modulus -50% elongation -100% elongation -300% elongation	ASTM D 412	2500 2800 4800	psi psi psi	17.2 19.3 33.1	MPa MPa Mpa
Ultimate Elongation	ASTM D 412	360	%	360	%
Ultimate Tensile Strength	ASTM D 412	5750	psi	39.6	Мра
Elongation Set After Break	ASTM D 412	80	%	80	%
Tear Strength, Die C	ASTM D 624	1100	PLI	193	KN/m
Compression Set, Method B -22 hrs @ 25°C -22 hrs @ 70°C	ASTM D 395	30 35	% %	30 35	% %
Flexural Modulus	ASTM D 790	33,500	psi	231	MPa
Thermal					
Vicat Softening Point (120°C/hr, 9.8N)	ASTM D 1525	242	°F	117	°C
CLTE, in-flow	ASTM D 696	72.7	in/in/°F	131	mm/mm/°C
Processing Conditions (Typical)					
Drying Temperature (air dew point <-40C)		210-230	°F	99-110	°C
Melt Temperature (Molding)		410-440	°F	210-221	°C
Mold Temperature		60-140	°F	16-60	°C

¹Typical 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.

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