

Technical Data Sheet
Type: Estane® 2355-80AE is a thermoplastic polyurethane elastomer.

Feature: Damping capacity.

Properties	Test Method	English		S.I.	
		Values [†]	Units	Values [†]	Units
Physical⁽¹⁾					
Shore Hardness	ASTM D 2240	85	A	85	A
Specific Gravity	ASTM D 792	1.18		1.18	
Melt Flow Rate, 224°C/8700g	ASTM D 1238	-	g/10min	7	g/10min
Taber Abrasion, Wt Loss, 1000g wt 1-1000g, H-22 (coarser)	ASTM D 1044	-	mg	10	mg
Mold Shrinkage, Transverse direction	ATSM D 955	0.2-0.6	%	0.2-0.6	%
Mold Shrinkage, Flow direction	ATSM D 955	0.5-0.6	%	0.5-0.6	%
Mechanical⁽²⁾					
Tensile Modulus	ASTM D 412	560	psi	3.9	MPa
-50% elongation		900	psi	6.2	MPa
-100% elongation		2200	psi	15.2	Mpa
-300% elongation					
Ultimate Elongation	ASTM D 412	550	%	550	%
Ultimate Tensile Strength	ASTM D 412	5700	psi	39.2	Mpa
Elongation Set After Break	ASTM D 412	60	%	60	%
Tear Strength, Die C	ASTM D 624	720	PLI	126	KN/m
Compression Set, Method B	ASTM D 395				
-22 hrs @ 25°C		25	%	25	%
-22 hrs @ 70°C		75	%	75	%
Thermal					
Vicat Softening Point (120°C/hr, 9.8N)	ASTM D 1525	199	°F	92.7	°C
Glass Transition Temperature	DSC	-35	°F	-27	°C
CLTE, in-flow	ASTM D 696	92.0	in/in/°F	166	mm/mm/°C
Processing Conditions (Typical)					
Drying Temperature (air dew point <-40C)		180-200	°F	82-93	°C
Melt Temperature (Molding)		380-400	°F	193-204	°C
Melt Temperature (Extrusion)		370-400	°F	188-204	°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.

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

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