

## Lubrizol Estane® 2355-95AE Thermoplastic Polyurethane Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane, TP , Thermoplastic Polyurethane, Elastomer, Polyester Grade

### Material Notes:

Formerly Pellethane Feature: Fuel resistant, extrusion laminate coating Available in Americas, Europe, Middle East, Africa, India and Asia Data provided by Dow Chemical. Lubrizol acquired the Pellethane product line from Dow in 2009.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lubrizol-Estane-2355-95AE-Thermoplastic-Polyurethane-Elastomer.php](http://www.lookpolymers.com/polymer_Lubrizol-Estane-2355-95AE-Thermoplastic-Polyurethane-Elastomer.php)

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in <sup>3</sup>	ASTM D792
Linear Mold Shrinkage, Flow	0.0060 - 0.0090 cm/cm	0.0060 - 0.0090 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0050 - 0.0090 cm/cm	0.0050 - 0.0090 in/in	ASTM D955
Melt Flow	13 g/10 min @Load 8.70 kg, Temperature 190 °C	13 g/10 min @Load 19.2 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	94	94	ASTM D2240
Tensile Strength, Ultimate	38.9 MPa	5640 psi	ASTM D412
Elongation at Break	450 %	450 %	ASTM D412
50% Modulus	0.00827 GPa	1.20 ksi	ASTM D412
100% Modulus	0.00965 GPa	1.40 ksi	ASTM D412
300% Modulus	0.0214 GPa	3.10 ksi	ASTM D412
Flexural Modulus	0.0896 GPa	13.0 ksi	ASTM D412
Tear Strength	105 kN/m	599 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	4.0	4.0	CS17 Wheel, 1000g; ASTM D1044
Compression Set	30 % @Temperature 25.0 °C, Time 79200 sec	30 % @Temperature 77.0 °F, Time 22.0 hour	ASTM D395, Method B
	80 % @Temperature 70.0 °C, Time 79200 sec	80 % @Temperature 158 °F, Time 22.0 hour	ASTM D395, Method B
Tensile Set	60 %	60 %	Elongation set after break; ASTM D412

Mechanical Properties	Metric	English	Comments
CTE, linear	153 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature 20.0 $^\circ\text{C}$	85.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature 68.0 $^\circ\text{F}$	ASTM D696
Vicat Softening Point	81.0 $^\circ\text{C}$	178 $^\circ\text{F}$	120 $^\circ\text{C}/\text{hr}$ , 9.8N; ASTM D1525
Glass Transition Temp, Tg	-15.0 $^\circ\text{C}$	5.00 $^\circ\text{F}$	DSC

Processing Properties	Metric	English	Comments
Melt Temperature	182 - 199 $^\circ\text{C}$	360 - 390 $^\circ\text{F}$	Extrusion
Mold Temperature	16.0 - 60.0 $^\circ\text{C}$	60.8 - 140 $^\circ\text{F}$	
Drying Temperature	88.0 - 104 $^\circ\text{C}$	190 - 219 $^\circ\text{F}$	air dew point $\leq -40^\circ\text{C}$

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