

## Lubrizol Estane® 2355-55DE Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Polyurethane, TP

### Material Notes:

Type: Pellethane® 2355-55DE is a thermoplastic polyurethane elastomer. Information Provided by The Lubrizol Corporation

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lubrizol-Estane-2355-55DE-Thermoplastic-Polyurethane.php](http://www.lookpolymers.com/polymer_Lubrizol-Estane-2355-55DE-Thermoplastic-Polyurethane.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D792
Linear Mold Shrinkage	0.0090 - 0.013 cm/cm	0.0090 - 0.013 in/in	Flow direction; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	53	53	ASTM D2240
Tensile Strength, Ultimate	41.4 MPa	6000 psi	ASTM D412
Elongation at Break	500 %	500 %	ASTM D412
50% Modulus	0.00930 GPa	1.35 ksi	ASTM D412
100% Modulus	0.0120 GPa	1.74 ksi	ASTM D412
300% Modulus	0.0248 GPa	3.60 ksi	ASTM D412
Flexural Modulus	0.165 GPa	23.9 ksi	ASTM D790
Tear Strength	114 kN/m	650 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	60	60	H-22 (coarser); ASTM D1044
Compression Set	25 %	25 %	Method B; ASTM D395
	@Temperature 25.0 °C, Time 79200 sec	@Temperature 77.0 °F, Time 22.0 hour	
Compression Set	35 %	35 %	Method B; ASTM D395
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	

Processing Properties	Metric	English	Comments
Melt Temperature	199 - 216 °C	390 - 421 °F	Extrusion
	204 - 221 °C	399 - 430 °F	
Mold Temperature	16.0 - 60.0 °C	60.8 - 140 °F	Molding

Driving Temperature Processing Properties	88.0 - 104 °C Metric	190 - 219 °F English	Air dew point <-40°C Comments
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Descriptive Properties	Value	Comments
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Elongation Set After Break (%)	80	ASTM D412
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## Contact Songhan Plastic Technology Co.,Ltd.

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