

## Lubrizol Pellethane® 2363-55DE Thermoplastic Polyurethane Elastomer

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

### Material Notes:

Feature: USP Class VI Available in Americas, Europe, Middle East, Africa, India and Asia  
Data provided by Lubrizol  
Lubrizol acquired the Pellethane product line from Dow in 2009.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lubrizol-Pellethane-2363-55DE-Thermoplastic-Polyurethane-Elastomer.php](http://www.lookpolymers.com/polymer_Lubrizol-Pellethane-2363-55DE-Thermoplastic-Polyurethane-Elastomer.php)

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in <sup>3</sup>	ASTM D792
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955
Melt Flow	30 g/10 min @Load 8.70 kg, Temperature 224 °C	30 g/10 min @Load 19.2 lb, Temperature 435 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	53	53	ASTM D2240
Tensile Strength, Ultimate	44.8 MPa	6500 psi	ASTM D412
Elongation at Break	450 %	450 %	ASTM D412
50% Modulus	0.0117 GPa	1.70 ksi	ASTM D412
100% Modulus	0.0159 GPa	2.31 ksi	ASTM D412
300% Modulus	0.0296 GPa	4.29 ksi	ASTM D412
Flexural Modulus	0.152 GPa	22.0 ksi	ASTM D412
Tear Strength	105 kN/m	599 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	70	70	H22 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
	75 % @Temperature 70.0 °C, Time 79200 sec	75 % @Temperature 158 °F, Time 22.0 hour	ASTM D395
Tensile Set	30 %	30 %	Elongation set after break; ASTM D412

Mechanical Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	141 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature -80.0 - - 30.0 $^\circ\text{C}$	78.3 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature -112 - - 22.0 $^\circ\text{F}$	ASTM D696
Vicat Softening Point	94.0 $^\circ\text{C}$	201 $^\circ\text{F}$	120 $^\circ\text{C}/\text{hr}$ , 9.8N; ASTM D1525

Processing Properties	Metric	English	Comments
Melt Temperature	193 - 210 $^\circ\text{C}$	380 - 410 $^\circ\text{F}$	Extrusion
	199 - 216 $^\circ\text{C}$	390 - 420 $^\circ\text{F}$	Molding
Mold Temperature	15.6 - 60.0 $^\circ\text{C}$	60.0 - 140 $^\circ\text{F}$	
Drying Temperature	87.8 - 104 $^\circ\text{C}$	190 - 220 $^\circ\text{F}$	air dew point $\leq -40^\circ\text{C}$

## Contact Songhan Plastic Technology Co.,Ltd.

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