

## Lubrizol Pellethane® 2363-80A Thermoplastic Polyurethane Elastomer

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

### Material Notes:

Features: 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-2363-80A-Thermoplastic-Polyurethane-Elastomer.php](http://www.lookpolymers.com/polymer_Lubrizol-Pellethane-2363-80A-Thermoplastic-Polyurethane-Elastomer.php)

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in <sup>3</sup>	ASTM D792
Linear Mold Shrinkage, Flow	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.00 - 0.0040 cm/cm	0.00 - 0.0040 in/in	ASTM D955
Melt Flow	23 g/10 min @Load 1.20 kg, Temperature 224 °C	23 g/10 min @Load 2.65 lb, Temperature 435 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	81	81	ASTM D2240
Tensile Strength, Ultimate	35.8 MPa	5190 psi	ASTM D412
Elongation at Break	550 %	550 %	ASTM D412
50% Modulus	0.00410 GPa	0.595 ksi	ASTM D412
100% Modulus	0.00610 GPa	0.885 ksi	ASTM D412
300% Modulus	0.0121 GPa	1.75 ksi	ASTM D412
Tear Strength	82.3 kN/m	470 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	20	20	H22 Wheel, 1000g; ASTM D1044
Compression Set	25 % @Temperature 25.0 °C, Time 79200 sec	25 % @Temperature 77.0 °F, Time 22.0 hour	ASTM D395 Method B
	30 % @Temperature 70.0 °C, Time 79200 sec	30 % @Temperature 158 °F, Time 22.0 hour	ASTM D395 Method B
Tensile Set	30 %	30 %	Elongation set after break; ASTM D412

Thermal Properties	Metric	English	Comments
CTE, linear	170 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	94.4 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ASTM D696
	@Temperature -80.0 - - 30.0 $^\circ\text{C}$	@Temperature -112 - - 22.0 $^\circ\text{F}$	
Vicat Softening Point	85.0 $^\circ\text{C}$	185 $^\circ\text{F}$	120 $^\circ\text{C}/\text{hr}$ , 9.8N; ASTM D1525
Glass Transition Temp, Tg	-42.0 $^\circ\text{C}$	-43.6 $^\circ\text{F}$	

Processing Properties	Metric	English	Comments
Melt Temperature	193 - 210 $^\circ\text{C}$	379 - 410 $^\circ\text{F}$	Molding
Mold Temperature	16.0 - 60.0 $^\circ\text{C}$	60.8 - 140 $^\circ\text{F}$	
Drying Temperature	82.0 - 93.0 $^\circ\text{C}$	180 - 199 $^\circ\text{F}$	air dew point <-40 $^\circ\text{C}$

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China