

Lubrizol Estane® 2103-65D Thermoplastic Polyurethane Elastomer

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

Material Notes:

Formerly Pellethane
 Feature: Low temperature impact
 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-Estane-2103-65D-Thermoplastic-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.0060 - 0.010 cm/cm	0.0060 - 0.010 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0050 - 0.0090 cm/cm	0.0050 - 0.0090 in/in	ASTM D955
Melt Flow	35 g/10 min @Load 5.00 kg, Temperature 224 °C	35 g/10 min @Load 11.0 lb, Temperature 435 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	64	64	ASTM D2240
Tensile Strength, Ultimate	39.6 MPa	5740 psi	ASTM D412
Elongation at Break	360 %	360 %	ASTM D412
50% Modulus	0.0172 GPa	2.49 ksi	ASTM D412
100% Modulus	0.0193 GPa	2.80 ksi	ASTM D412
300% Modulus	0.0331 GPa	4.80 ksi	ASTM D412
Flexural Modulus	0.231 GPa	33.5 ksi	ASTM D790
Tear Strength	193 kN/m	1100 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	90	90	H22 Wheel, 1000g; ASTM D044
Compression Set	30 % @Temperature 25.0 °C, Time 79200 sec	30 % @Temperature 77.0 °F, Time 22.0 hour	ASTM D395, Method B
	35 % @Temperature 70.0 °C, Time 79200 sec	35 % @Temperature 158 °F, Time 22.0 hour	ASTM D395, Method B
Tensile Set	80 %	80 %	Elongation set after break; ASTM D412

Mechanical Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	131 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature 20.0 $^\circ\text{C}$	72.8 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature 68.0 $^\circ\text{F}$	ASTM D696
Vicat Softening Point	117 $^\circ\text{C}$	243 $^\circ\text{F}$	120 $^\circ\text{C}/\text{hr}$, 9.8N; ASTM D1525

Processing Properties	Metric	English	Comments
Melt Temperature	210 - 221 $^\circ\text{C}$	410 - 430 $^\circ\text{F}$	Molding
Mold Temperature	16.0 - 60.0 $^\circ\text{C}$	60.8 - 140 $^\circ\text{F}$	
Drying Temperature	99.0 - 110 $^\circ\text{C}$	210 - 230 $^\circ\text{F}$	air dew point $\leq -40^\circ\text{C}$

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