



Estane® 2103-65D TPU

Lubrizol Advanced Materials, Inc. - Thermoplastic Polyurethane Elastomer (Polyether)

Wednesday, November 6, 2019

General Information

Product Description

2103-65D is a thermoplastic polyurethane elastomer.

Feature: Low temperature impact

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Latin America	• North America
Features	• Low Temperature Impact Resistance		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.17		ASTM D792
Melt Mass-Flow Rate (224°C/5.0 kg)	35	g/10 min	ASTM D1238
Molding Shrinkage - Flow	5.0E-3 to 9.0E-3	in/in	ASTM D955
Molding Shrinkage - Across Flow	6.0E-3 to 0.010	in/in	ASTM D955
Mechanical			
Flexural Modulus (0.126 in)	33500	psi	ASTM D790
Taber Abrasion Resistance (1000 g, H-22 Wheel)	90.0	mg	ASTM D1044
Elastomers			
Tensile Stress (50% Strain, 0.126 in)	2490	psi	ASTM D412
Tensile Stress (100% Strain, 0.126 in)	2800	psi	ASTM D412
Tensile Stress (300% Strain, 0.126 in)	4800	psi	ASTM D412
Tensile Strength (Break, 0.126 in)	5740	psi	ASTM D412
Tensile Elongation (Break, 0.126 in)	360	%	ASTM D412
Elongation Set After Break (0.126 in)	80	%	ASTM D412
Tear Strength ² (0.126 in)	1100	lbf/in	ASTM D624
Compression Set			ASTM D395B
77°F, 22 hr	30	%	
158°F, 22 hr	35	%	
Hardness			
Durometer Hardness (Shore D)	64		ASTM D2240
Thermal			
Vicat Softening Temperature	243	°F	ASTM D1525 ³
CLTE - Flow	7.3E-5	in/in/°F	ASTM D696

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	210 to 230	°F
Processing (Melt) Temp	410 to 430	°F
Mold Temperature	61 to 140	°F

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Injection Notes

Air Dew Point: <-40°C

Notes

¹ Typical properties: these are not to be construed as specifications.

² Die C

³ Rate B (120°C/h), Loading 1 (10 N)