

Estane® 2103-65D TPU

Thermoplastic Polyurethane Elastomer (Polyether)

Lubrizol Advanced Materials, Inc.

Message:

2103-65D is a thermoplastic polyurethane elastomer.

Feature: Low temperature impact

General Information			
Features	Low temperature impact resistance		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (224°C/5.0 kg)	35	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	0.50 - 0.90	%	ASTM D955
Transverse flow	0.60 - 1.0	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	64		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus (3.20 mm)	231	MPa	ASTM D790
Taber Abrasion Resistance (1000 g, H-22 Wheel)	90.0	mg	ASTM D1044
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
50% strain, 3.20mm	17.2	MPa	ASTM D412
100% strain, 3.20mm	19.3	MPa	ASTM D412
300% strain, 3.20mm	33.1	MPa	ASTM D412
Tensile Strength (Break, 3.20 mm)	39.6	MPa	ASTM D412
Tensile Elongation (Break, 3.20 mm)	360	%	ASTM D412
Tensile Elongation at Break (3.20 mm)	80	%	ASTM D412
Tear Strength ¹ (3.20 mm)	193	kN/m	ASTM D624
Compression Set			ASTM D395B
25°C, 22 hr	30	%	ASTM D395B
70°C, 22 hr	35	%	ASTM D395B
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	117	°C	ASTM D1525 ²
CLTE - Flow	1.3E-4	cm/cm/°C	ASTM D696
Injection	Nominal Value	Unit	
Drying Temperature	99.0 - 110	°C	
Processing (Melt) Temp	210 - 221	°C	

Mold Temperature	16.0 - 60.0	°C
Injection instructions		
Air Dew Point: <-40°C		
NOTE		
1.	C mould	
2.	标准 B (120°C/h), 压力1 (10N)	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

