

Estane® 2103-70A TPU

Thermoplastic Polyurethane Elastomer (Polyether)

Lubrizol Advanced Materials, Inc.

Message:

2103-70A is a thermoplastic polyurethane elastomer.

Feature: High MVTR

General Information			
UL YellowCard	E106426-100187491		
Features	High Moisture Vapor Transmission		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (224°C/8.7 kg)	11	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	-0.30 - 0.80	%	ASTM D955
Transverse flow	0.40 - 0.50	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	72		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (1000 g, H-22 Wheel)	3.00	mg	ASTM D1044
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
50% strain, 3.20mm	2.10	MPa	ASTM D412
100% strain, 3.20mm	3.00	MPa	ASTM D412
300% strain, 3.20mm	5.20	MPa	ASTM D412
Tensile Strength (Break, 3.20 mm)	24.7	MPa	ASTM D412
Tensile Elongation (Break, 3.20 mm)	730	%	ASTM D412
Tensile Elongation at Break (3.20 mm)	50	%	ASTM D412
Tear Strength ¹ (3.20 mm)	66.5	kN/m	ASTM D624
Compression Set			ASTM D395B
25°C, 22 hr	25	%	ASTM D395B
70°C, 22 hr	75	%	ASTM D395B
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-69.0	°C	DSC
Vicat Softening Temperature	75.6	°C	ASTM D1525 ²
CLTE - Flow	1.8E-4	cm/cm/°C	ASTM D696
Injection	Nominal Value	Unit	
Drying Temperature	82.0 - 93.0	°C	

Processing (Melt) Temp	193 - 210	°C
Mold Temperature	16.0 - 60.0	°C
Injection instructions		
Air Dew Point: <-40°C		
Extrusion	Nominal Value	Unit
Drying Temperature	82.0 - 93.0	°C
Melt Temperature	188 - 204	°C
Extrusion instructions		
Air Dew Point: <-40°C		
NOTE		
1.	C mould	
2.	标准 B (120°C/h), 压力1 (10N)	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

