

Estane® 2103-85AE TPU

Thermoplastic Polyurethane Elastomer (Polyether)

Lubrizol Advanced Materials, Inc.

Message:

2103-85AE is a thermoplastic polyurethane elastomer.

Feature: Film and profile resin

General Information			
Uses	Films		
	Profile		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (224°C/8.7 kg)	24	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	0.0 - 0.60	%	ASTM D955
Transverse flow	0.50 - 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw A	88		ASTM D2240
Shaw D	48		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (1000 g, H-22 Wheel)	5.00	mg	ASTM D1044
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
50% strain, 3.20mm	5.50	MPa	ASTM D412
100% strain, 3.20mm	6.90	MPa	ASTM D412
300% strain, 3.20mm	12.1	MPa	ASTM D412
Tensile Strength (Break, 3.20 mm)	32.0	MPa	ASTM D412
Tensile Elongation (Break, 3.20 mm)	560	%	ASTM D412
Tensile Elongation at Break (3.20 mm)	80	%	ASTM D412
Tear Strength ¹ (3.20 mm)	82.3	kN/m	ASTM D624
Compression Set			ASTM D395B
25°C, 22 hr	25	%	ASTM D395B
70°C, 22 hr	80	%	ASTM D395B
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-38.0	°C	DSC
Vicat Softening Temperature	67.2	°C	ASTM D1525 ²

CLTE - Flow	1.7E-4	cm/cm/°C	ASTM D696
Injection	Nominal Value	Unit	
Drying Temperature	82.0 - 93.0	°C	
Processing (Melt) Temp	188 - 204	°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	182 - 199	°C	
Extrusion 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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