

Estane® 2103-90AEFH TPU

Thermoplastic Polyurethane Elastomer (Polyether)

Lubrizol Advanced Materials, Inc.

Message:

2103-90AEFH is a thermoplastic polyurethane elastomer.

Feature: Film resin for injection blow molding

General Information			
Uses	Films		
Forms	Particle		
Processing Method	Injection blowing molding		
	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)	6.0	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	0.40 - 0.50	%	ASTM D955
Transverse flow	0.50 - 0.80	%	ASTM D955

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	92		ASTM D2240

Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (1000 g, H-22 Wheel)	50.0	mg	ASTM D1044

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
50% strain, 3.20mm	7.00	MPa	ASTM D412
100% strain, 3.20mm	9.90	MPa	ASTM D412
300% strain, 3.20mm	18.6	MPa	ASTM D412
Tensile Strength (Break, 3.20 mm)	35.5	MPa	ASTM D412
Tensile Elongation (Break, 3.20 mm)	520	%	ASTM D412
Tensile Elongation at Break (3.20 mm)	60	%	ASTM D412
Tear Strength ¹ (3.20 mm)	94.6	kN/m	ASTM D624
Compression Set			ASTM D395B
25°C, 22 hr	25	%	ASTM D395B
70°C, 22 hr	40	%	ASTM D395B

Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-27.0	°C	DSC
Vicat Softening Temperature	102	°C	ASTM D1525 ²
CLTE - Flow	1.6E-4	cm/cm/°C	ASTM D696

Injection	Nominal Value	Unit
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Drying Temperature	88.0 - 104	°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	88.0 - 104	°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)	

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