

Estane® 2103-80PF TPU

Thermoplastic Polyurethane Elastomer (Polyether)

Lubrizol Advanced Materials, Inc.

Message:

2103-80PF is a thermoplastic polyurethane elastomer.

Feature: Film and profile resin

General Information			
Uses	Film		
	Profiles		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/8.7 kg)	39	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow : 1.60 mm	-0.20 to 0.50	%	
Across Flow : 1.60 mm	0.40 to 0.70	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	80 to 88		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (1000 Cycles, 1000 g, CS-17 Wheel)	5.00	mg	ASTM D1044
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
50% Strain	4.10	MPa	
100% Strain	5.20	MPa	
300% Strain	7.90	MPa	
Tensile Strength (Break)	26.2	MPa	ASTM D412
Tensile Elongation (Break)	660	%	ASTM D412
Elongation Set After Break	50	%	ASTM D412
Tear Strength ¹	78.8	kN/m	ASTM D624
Compression Set			ASTM D395B
25°C, 22 hr	25	%	
70°C, 22 hr	80	%	
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-46.0	°C	DSC
Vicat Softening Temperature	68.9	°C	ASTM D1525
CLTE - Flow	1.7E-4	cm/cm/°C	ASTM D696
Injection	Nominal Value	Unit	

Drying Temperature	82.0 to 93.0	°C
Processing (Melt) Temp	188 to 204	°C
Mold Temperature	16.0 to 60.0	°C
Extrusion	Nominal Value	Unit
Drying Temperature	82.0 to 93.0	°C
Melt Temperature	182 to 199	°C
NOTE		

1. Die C

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