

Estane® R195A-9 TPU

Thermoplastic Polyurethane Elastomer (Polyether)

Lubrizol Advanced Materials, Inc.

Message:

Type: Estane® R195A-9 is an aromatic, polyether-based thermoplastic polyurethane (TPU).
Features: Excellent physical properties, low temperature performance and clarity with a wide processing window for extrusion.
Uses: Blown and flat die/cast film extrusion. Injection and blow molding

General Information			
Features	Aroma		
	Workability, good		
	Definition, high		
Uses	Blown Film		
	Blow molding applications		
	cast film		
Agency Ratings	FDA 21 CFR 175.105		
	FDA 21 CFR 177.1680		
	FDA 21 CFR 177.2600		
Forms	Particle		
Processing Method	Blow film		
	Blow molding		
	Extrusion		
	cast film		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	95		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (1000 Cycles, 1000 g, H-18 Wheel)	34.0	mg	ASTM D3389
Elastomers	Nominal Value	Unit	Test Method
Tensile Set (200% Strain)	13	%	ASTM D412
Tensile Stress			ASTM D412
100% strain, 0.762mm	11.0	MPa	ASTM D412
300% strain, 0.762mm	31.0	MPa	ASTM D412
Tensile Strength (Break, 0.762 mm)	64.0	MPa	ASTM D412

Tensile Elongation (Break, 0.762 mm)	440	%	ASTM D412
Tear Strength			
0.762 mm ¹	119	kN/m	ASTM D624
Cracking	30	kN/m	ASTM D470
Aging	Nominal Value	Unit	Test Method
Change in Volume (23°C, 24 hr, in water)	0.50	%	ASTM D471
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-46.0	°C	DSC
Melting Temperature	176	°C	DSC
Kofler Melting Temperature	169	°C	Internal method
Extrusion	Nominal Value	Unit	
Drying Temperature	104	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.020	%	
Cylinder Zone 1 Temp.	177	°C	
Cylinder Zone 2 Temp.	182	°C	
Cylinder Zone 3 Temp.	188	°C	
Cylinder Zone 4 Temp.	193	°C	
Adapter Temperature	199	°C	
Melt Temperature	196	°C	
Die Temperature	199	°C	
Extrusion instructions			
Screen Pack Recommendation: 20/40/80Dew Point: -40°C			
NOTE			

1. C mould

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