

# Estane® ALR CL87A-V TPU

Thermoplastic Polyurethane Elastomer (Polycaprolactone)

Lubrizol Advanced Materials, Inc.

Message:

Type: Estane® ALR CL87A-V is an aliphatic, polycaprolactone-based TPU with a Shore A Durometer of 85-90.  
Features: Contains a UV package that enhances outdoor weatherability. This high performance resin is clear, UV resistant; it will not discolor and has excellent mechanical properties.  
Uses: Outdoor applications, protective films and graphics

General Information			
Additive	UV stabilizer		
Features	Good UV resistance		
	aliphatic		
Uses	Films		
	Outdoor application		
Appearance	Clear/transparent		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (175°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 5 sec)	85 - 90		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus (2.00 mm)	21.4	MPa	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain, 2.00mm	6.89	MPa	ASTM D412
200% strain, 2.00mm	15.7	MPa	ASTM D412
Tensile Strength (Break, 2.00 mm)	62.2	MPa	ASTM D412
Tensile Elongation (Break, 2.00 mm)	410	%	ASTM D412
Extrusion	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	4.0	hr	
Cylinder Zone 1 Temp.	165	°C	
Cylinder Zone 2 Temp.	170	°C	
Cylinder Zone 3 Temp.	175	°C	
Cylinder Zone 5 Temp.	180	°C	

Melt Temperature	180	°C
Die Temperature	180	°C
Extrusion instructions		

Screen Pack Recommendation: 20/40/80/20

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#### Recommended distributors for this material

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