

Estane® ALR CL57D-V TPU

Thermoplastic Polyurethane Elastomer

Lubrizol Advanced Materials, Inc.

Message:

Type: Estane ALR CL57D-V is a 57 Shore D thermoplastic polyurethane (TPU) resin.

Features: Contains a UV package that enhances outdoor weatherability.

General Information	
Additive	UV stabilizer
Uses	Outdoor application
Forms	Particle
Processing Method	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm ³	ASTM D792

Melt Mass-Flow Rate (MFR) (175°C/2.16 kg)	3.2	g/10 min	ASTM D1238
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Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 5 sec)	57		ASTM D2240

Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	63.4	MPa	ASTM D790

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	15.1	MPa	ASTM D412
200% strain	26.0	MPa	ASTM D412
Tensile Strength (Break)	64.5	MPa	ASTM D412
Tensile Elongation (Break)	370	%	ASTM D412

Injection	Nominal Value	Unit
Drying Temperature	57.2	°C
Drying Time	4.0	hr
Rear Temperature	175	°C
Middle Temperature	180	°C
Nozzle Temperature	185	°C
Processing (Melt) Temp	185	°C

Injection instructions		
Fill/Pack/Cool (2 mm part): 2 sec/15 sec/10 sec		

Extrusion	Nominal Value	Unit
Drying Temperature	48.9	°C
Drying Time	4.0	hr
Cylinder Zone 1 Temp.	170	°C

Cylinder Zone 2 Temp.	175	°C
Cylinder Zone 3 Temp.	180	°C
Cylinder Zone 5 Temp.	185	°C
Melt Temperature	185	°C
Die Temperature	185	°C

Extrusion instructions

Screen Pack Recommendation: 20/40/80/20

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