

## Lubrizol Estane® ALR CL57D Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Polyurethane, TP

**Material Notes:**

Type: Estane® ALR CL57D is an aliphatic, polycaprolactone-based TPU with a Shore D Durometer of 57. 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. Available in Americas, Europe, Middle East, Africa, India and Asia. Information Provided by The Lubrizol Corporation

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lubrizol-Estane-ALR-CL57D-Thermoplastic-Polyurethane.php](http://www.lookpolymers.com/polymer_Lubrizol-Estane-ALR-CL57D-Thermoplastic-Polyurethane.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM D792
Melt Flow	3.2 g/10 min @Load 2.16 kg, Temperature 175 °C	3.2 g/10 min @Load 4.76 lb, Temperature 347 °F	ASTM D1230

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	57 @Time 5.00 sec	57 @Time 0.00139 hour	ASTM D2240
Tensile Strength, Ultimate	64.5 MPa	9350 psi	ASTM D412
Elongation at Break	370 %	370 %	ASTM D412
100% Modulus	0.01507 GPa	2.185 ksi	ASTM D412
300% Modulus	0.02596 GPa	3.765 ksi	ASTM D412
Flexural Modulus	0.0634 GPa	9.20 ksi	ASTM D790

Processing Properties	Metric	English	Comments
Zone 1	170 °C	338 °F	Extrusion
Zone 2	175 °C	347 °F	Extrusion
Zone 3	180 °C	356 °F	Extrusion
Zone 4	185 °C	365 °F	Extrusion
Die Temperature	185 °C	365 °F	Extrusion
Melt Temperature	185 °C	365 °F	Extrusion

## **Contact Songhan Plastic Technology Co.,Ltd.**

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