

PROVISIONAL TECHNICAL DATA SHEET

Technical Data Sheet

Type: ESTANE® ALR MC-93A-VE is an aliphatic polyether-based thermoplastic polyurethane (TPU).

Main Application: Melt coating

Uses:

Physical Properties	Value (Metric)	Unit	Test Method
Hardness (3 sec)	87	Shore A	ISO 868 / ASTM D-2240
Specific Gravity	1.08	g/cm3	ISO 2781 / ASTM D-792
Tensile Strength	34 / 4931	MPa / psi	ISO 527-3 / ASTM D-412
Ultimate Elongation	390	%	ISO 527-3 / ASTM D-412
Tensile Stress at:			ISO 527-3 / ASTM D-412
Modulus @ 100%	6 / 870	MPa / psi	ISO 527-3 / ASTM D-412
Modulus @ 300%	20 / 2901	MPa / psi	ISO 527-3 / ASTM D-412
Moisture Content	< 0.1	%	MQSA 44

[•] These are typical values & should not be used for establishing specifications.

Supply Form and Standard Packaging

• ESTANE® ALR MC-93A-VE is supplied in pellet form and packaged and packaged in 25 kg bags.

Material Preparation

- Prior to processing, ESTANE® ALR MC-93A-VE must be dried at 100°C (212 °F) for 3-4 hours.
- It is recommended to dry the material in a dehumidifying type dryer. Target dew point should be -40°C (-40 °F).
- Depending on the applied processing technique, the maximum moisture level should be 0.02%.

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[•] Prior to testing samples were conditioned at 23°C for 24 hours but hardness 7 days.



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Recommended CALENDERING Temperature Profile:

	°C / °F	
Roll 1	160 / 320	
Roll 2	170 / 338	
Rubber Roll 3	Not heated	

For further information refer to Lubrizol Advanced Materials processing guides.

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