

Technical Data Sheet

Type: ESTANE® ECO 16T95 NAT 01 is a 95 shore A TPU with Ca 25% biobased content

Features: Good transparency and UV stabilized clear TPU

Uses: Injection molding

Physical Properties	Value (Metric)	Unit	Test Method
Hardness (5 sec)	95	Shore A	ASTM D-2240
Specific Gravity	1.16		ASTM D-792
Tensile Strength	40	MPa	ASTM D-412
Ultimate Elongation	600	%	"
Tensile Stress at:			
- 100 % Elongation	8.0	MPa	ASTM D-412
- 300 % Elongation	12.0	MPa	"
Tear Strength			
- Graves	170	Kgf/cm	ASTM D-624 (die C)
Abrasion	60	Cc loss	ISO 4649

Remark:

- Prior to testing samples were conditioned at 23°C for 48 hours.
- Based on injected plaque (2mm).
- Listed values are "typical (average) values" and should/cannot be applied for specification purposes.

Supply Form and Standard Packaging

- ESTANE® ECO 16T95 NAT 01 is supplied in pellet form and packaged in 25kgs bags.

Material Preparation

- Prior to processing, ESTANE® ECO 16T95 NAT 01 must be dried at 176~212°F (80~100°C) for 2-4 hours.
- It is recommended to dry the material in a desiccant type dryer. Target dew point should be -40°C.
- Depending on the applied processing technique, the maximum moisture level should be 0.05%.

Material Preparation

- ESTANE® ECO 16T95 NAT 01 can be processed on any conventional injection molding machine.

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Recommended Starting INJECTION MOLDING Temperature Profile:

	°C
Zone 1	200
Zone 2	205
Zone 3	210
Nozzle	205

Fill rate: Moderate to fast**For further information refer to Lubrizol Advanced Materials processing guides.**

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