ESTANE® ECO 16T95 NAT 01

Technical Data Sheet

Type: ESTANE® ECO 16T95 NAT 01 is a 95 shore A thermoplastic polyurethane (TPU) with Ca 25% bio-based 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	12.5	MPa	ASTM D-412
- 300 % Elongation	22	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.

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.

http://go.lubrizol.com/EP

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.