ESTAGRIP®
THERMOPLASTIC ELASTOMERS

Technical Data

EstaGrip® ST80A TPE

Type: EstaGrip® ST 80A TPE is an 80A Polyether-Type Thermoplastic Polyurethane.

Features: Low durometer soft feel for excellent grip; outstanding adhesion

Uses: Injection Molding - Overmolding

Physical Properties	Value (Metric)	Unit	Test Method
Hardness (5 sec)	**80** +/- 3	Shore A	ASTM D-2240
Specific Gravity	**1.06**		ASTM D-792
Tensile Strength	**3300 (22.8)**	psi (MPa)	ASTM D-412
Ultimate Elongation	**750**	%	"
Tensile Stress at			
- 100 % Elongation	**530 (3.7)**	psi (MPa)	ASTM D-412
- 300 % Elongation	**970 (6.7)**	psi (MPa)	"
Tear Strength			
Graves	**390 (7.0)**	lb/in (kg/mm)	ASTM D-624 (die C)
Taber Loss (1000 rev)	**0.002 (45.0)**	oz (mg)	ASTM D-3389 (H18, 1000g)
T_g (by DSC)	**-60 (-51)**	°F (°C)	Lubrizol Advanced Materials

- Prior to testing samples were conditioned at 23°C for 48 hours.
- Based on extruded sheet (30 mils).
- Listed values are "typical (average) values" and should / can not be applied for specification purposes.

Supply Form and Standard Packaging

- **EstaGrip® ST 80A TPE** is supplied in pellet form and packaged in 50 lb bags or 1000 lb boxes.

Material Preparation

- Prior to processing, **EstaGrip® ST 80A TPE** must be dried at **220°F (104°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 0.02%.

Processing Conditions

- **EstaGrip® ST 80A TPE** can be processed on any conventional injection molding machine.

Lubrizol
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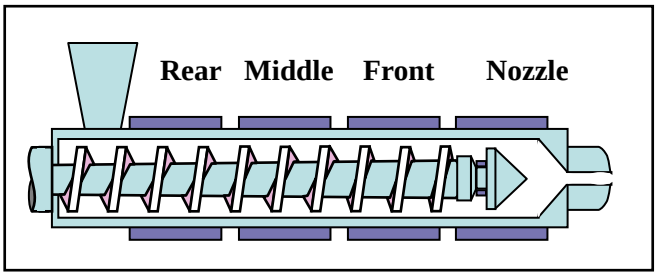
Recommended Starting Injection Molding Temperature Profile:



	°F/°C
Rear	**425/218**
Middle	**430/221**
Front	**440/227**
Nozzle	**440/227**
Melt	**440/227**

* Melt temperature by pyrometer check of air shot

For further information refer to Lubrizol Advanced Materials processing guides