

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.

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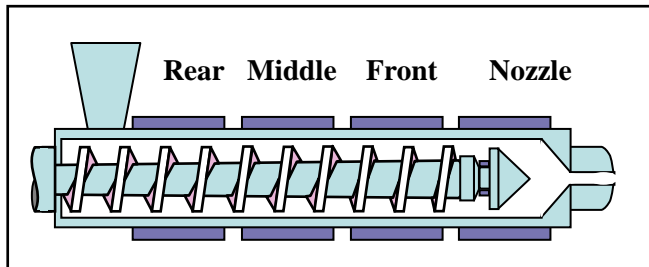


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Recommended Starting Injection Molding Temperature Profile:



	°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