Technical Data Sheet

Type: Estane® 58201 is an 82A Polyether-type thermoplastic polyurethane (TPU) compound.

Features: Tear resistant properties.

Uses: Injection Molding and general extrusion techniques.

Typical Properties	Test Method	Typical Values*	
		SI Units	English Units
Physical			
Specific Gravity	ASTM D792	1.11	1.11
Shore Hardness	ASTM D2240	82A	82A
Mechanical			
Tensile Strength	ASTM D-412/D-638	39.0 MPa	5655 psi
Modulus			
- 50% Elongation	ASTM D-412/D-638	3.8 MPa	5510 psi
- 100 % Elongation	ASTM D-412/D-638	4.6 MPa	667 psi
- 300 % Elongation	ASTM D-412/D-638	7.1 MPa	1030 psi
Ultimate Elongation	ASTM D-412/D-638	680%	680%
Compression Set	ASTM D-395		
- 22 hours @ 23°C		28%	28%
- 22 hours @ 70°C		71%	71%
Tear Strength	ASTM D-624, Die C	44.0 kN/m	251 lb/in
Abrasion Loss	DIN 53516	43 mm^3	43 mm^3
Rebound Resilience	DIN 53512	1%	1%
Brittle Point	DIN 53546	-70°C	-94°F

* These are typical values and should not be used for establishing specifications. Contact your representative and commercialization status.
**Unannealed. Annealing may give improved results. Information can be made available on special request. Annealed 16 hours @ 248°F (120°C).

Handling Considerations

Properties of all thermoplastic polyurethane products in the molten state are adversely affected by moisture. Although Estane TPU compounds are dry when packaged, trace amounts of moisture can be absorbed during storage and handling. For best results, always dry the material two hours at 104°C (220°F) in a dehumidifying hopper dryer.