Type: Estane® S398A-7N is a 98 shore A/52 shore D Polyester-Type Thermoplastic Polyurethane (TPU).

Description: UV stabilized and good transparency

Uses: Injection molding

Physical Properties	Value (Metric)	Unit	Test Method
Hardness (5 sec)	98 +/- 2 52 +/-3	Shore A Shore D	ASTM D-2240
Specific Gravity	1.22		ASTM D-792
Tensile Strength	6235 (43)	psi (MPa)	ASTM D-412
Ultimate Elongation	420	%	"
Tensile Stress at			
- 100 % Elongation	2610 (18)	psi (MPa)	ASTM D-412
- 300 % Elongation	4350 (30)	psi (MPa)	"
Tear Strength			
- Graves	896 (160)	lbf/in(kgf/cm)	ASTM D-624 (die C)
Abrasion Loss	40	mg loss	ISO 4649

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® S398A-7N is supplied in pellet form and packaged in 25kg bags.

Material Preparation

- Prior to processing, Estane[®] S398A-7N must be dried at 158~176°F (70~80°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%.

Processing Conditions

• Estane® S398A-7N can be processed on any conventional injection molding machine.

See reverse side for processing information.

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Recommended Starting Injection molding Temperature Profile:

	°F/°C	
Zone 1	383/195	
Zone 2	392/200	
Zone 3	392/200	
Nozzle	401/205	

Fill rate : Moderate

For further information refer to Lubrizol Advanced Materials processing guides.

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