

## Technical Data Sheet

**Type:** ESTANE® SKN 95E1 is a 95 shore A polyether-type thermoplastic polyurethane (TPU)

**Features:** High transparency with Excellent UV resistance, and low blooming performance

**Uses:** Injection molding

Physical Properties	Value (Metric)	Unit	Test Method
Hardness (5 sec)	95 +/-3	Shore A	ASTM D-2240
Specific Gravity	1.13	-	ASTM D-792
Tensile Strength	35	Mpa	ASTM D-412
Ultimate Elongation	420	%	ASTM D-412
Tensile Stress at:			
- 100 % Elongation	15	Mpa	ASTM D-412
- 300 % Elongation	30	Mpa	ASTM D-412
Tear Strength			
Graves	120	KN/m	ASTM D-624
Optical Properties			
Transmittance (1mm)	90	%	ASTM D 1003
Haze (1mm)	3	%	ASTM D 1003

**Remark:**

- Based on 2mm (1mm) injection part.
- Prior to testing samples were conditioned at 23°C for 48 hours.
- Listed values are "typical (average) values" and should/cannot be applied for specification purposes.

## Supply Form and Standard Packaging

- ESTANE® SKN 95E1 is supplied in pellet form and packaged in 25 kgs bag.

## Material Preparation

- Prior to processing, ESTANE® SKN 95E1 must be dried at 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%.

## Material Preparation

- ESTANE® SKN 95E1 can be processed on any conventional injection machine.

The information contained herein is believed to be reliable, but no representations, guarantees or warranties of any kind are made as to its accuracy, suitability for particular applications or the results to be obtained. The information often is based on laboratory work with small-scale equipment and does not necessarily indicate end product performance or reproducibility. Formulations presented may not have been tested for stability and should be used only as a suggested starting point. Because of the variations in methods, conditions and equipment used commercially in processing these materials, no warranties or guarantees are made as to the suitability of the products for the applications disclosed. Full-scale testing and end product performance are the responsibility of the user. Lubrizol Advanced Materials, Inc. shall not be liable for and the customer assumes all risk and liability for any use or handling of any material beyond Lubrizol Advanced Materials, Inc.'s direct control. The SELLER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Nothing contained herein is to be considered as permission, recommendation nor as an inducement to practice any patented invention without permission of the patent owner.

© 2020 The Lubrizol Corporation.  
All rights reserved. All marks are the property of The Lubrizol Corporation.



<http://go.lubrizol.com/EP>

**Recommended Starting Injection Temperature Profile:**

	°C
<b>Feed Zone 1</b>	<b>200-210</b>
<b>Zone 2</b>	<b>205-220</b>
<b>Zone 3</b>	<b>210-225</b>
<b>Nozzle</b>	<b>215-230</b>

**Fill rate: Moderate****For further information refer to Lubrizol Advanced Materials processing guides.**

The information contained herein is believed to be reliable, but no representations, guarantees or warranties of any kind are made as to its accuracy, suitability for particular applications or the results to be obtained. The information often is based on laboratory work with small-scale equipment and does not necessarily indicate end product performance or reproducibility. Formulations presented may not have been tested for stability and should be used only as a suggested starting point. Because of the variations in methods, conditions and equipment used commercially in processing these materials, no warranties or guarantees are made as to the suitability of the products for the applications disclosed. Full-scale testing and end product performance are the responsibility of the user. Lubrizol Advanced Materials, Inc. shall not be liable for and the customer assumes all risk and liability for any use or handling of any material beyond Lubrizol Advanced Materials, Inc.'s direct control. The SELLER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Nothing contained herein is to be considered as permission, recommendation nor as an inducement to practice any patented invention without permission of the patent owner.

© 2020 The Lubrizol Corporation.  
All rights reserved. All marks are the property of The Lubrizol Corporation.

<http://go.lubrizol.com/EP>