

**Huntsman AVALON® 95 AB Thermoplastic Polyurethane**

Category : Polymer , Thermoplastic , Polyurethane, TP , Thermoplastic Polyurethane (TPUR), Polyester Grade

Material Notes:

Introduction: AVALON 95 AB is a high performance polyester based thermoplastic polyurethane for injection molding. AVALON 95 AB is part of the AVALON Performance Range and offers a premium soling material for sports footwear and top-pieces. The features offered include:DurabilityExcellent surface definitionAbrasion resistanceFlex resistancePhthalate free TPU Information provided by Alliance Polymers

Order this product through the following link:  
[http://www.lookpolymers.com/polymer\\_Huntsman-AVALON-95-AB-Thermoplastic-Polyurethane.php](http://www.lookpolymers.com/polymer_Huntsman-AVALON-95-AB-Thermoplastic-Polyurethane.php)

| Physical Properties | Metric    | English       | Comments |
|---------------------|-----------|---------------|----------|
| Density             | 1.22 g/cc | 0.0441 lb/in³ | ISO 2781 |

| Mechanical Properties     | Metric     | English  | Comments      |
|---------------------------|------------|----------|---------------|
| Hardness, Shore A         | 95         | 95       | ISO 868       |
| Hardness, Shore D         | 50         | 50       | ISO 868       |
| Tensile Strength at Break | 35.0 MPa   | 5080 psi | ISO 37        |
| Elongation at Break       | 425 %      | 425 %    | ISO 37        |
| 100% Modulus              | 0.0130 GPa | 1.89 ksi | ISO 37        |
| 300% Modulus              | 0.0240 GPa | 3.48 ksi | ISO 37        |
| Flexural Modulus          | 0.0800 GPa | 11.6 ksi | ISO 178       |
| Tear Strength             | 146 kN/m   | 833 pli  | ISO 34B       |
| Abrasion                  | 35         | 35       | mm³; ISO 4649 |
| Compression Set           | 20 %       | 20 %     | ISO 815       |

| Processing Properties     | Metric         | English        | Comments |
|---------------------------|----------------|----------------|----------|
| Feed Temperature          | 25.0 - 35.0 °C | 77.0 - 95.0 °F |          |
| Rear Barrel Temperature   | 190 - 200 °C   | 374 - 392 °F   |          |
| Middle Barrel Temperature | 195 - 205 °C   | 383 - 401 °F   |          |
| Front Barrel Temperature  | 200 - 210 °C   | 392 - 410 °F   |          |
| Nozzle Temperature        | 185 - 195 °C   | 365 - 383 °F   |          |
| Mold Temperature          | 25.0 - 50.0 °C | 77.0 - 122 °F  |          |

| Processing Properties | Metric             | English         | Comments |
|-----------------------|--------------------|-----------------|----------|
|                       | 1.00 - 5.00 MPa    | 145 - 725 psi   |          |
| Hold Pressure         | 1.00 - 5.00 MPa    | 145 - 725 psi   |          |
| Back Pressure         | 0.0300 - 0.300 MPa | 4.35 - 43.5 psi |          |
| Screw Speed           | 20 - 80 rpm        | 20 - 80 rpm     |          |

| Descriptive Properties | Value           | Comments |
|------------------------|-----------------|----------|
| Compression Ratio      | 2-3:1           |          |
| L/D Ratio              | 20-25:1         |          |
| Ross Flex              | -10Â°C, BS 5131 |          |
| Typical Screw Diameter | 40-120 mm       |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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