

## Huntsman AVALON<sup>®</sup> 98 AB Thermoplastic Polyurethane

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

### Material Notes:

Introduction: AVALON 98 AB is a high performance polyester based thermoplastic polyurethane for injection molding. AVALON 98 AB is part of the AVALON Performance Range and offers a premium soling material for sports footwear and top-pieces. The features offered include: Durability, Excellent surface definition, Abrasion resistance, Flex resistance, Phthalate free TPU. Information provided by Alliance Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Huntsman-AVALON-98-AB-Thermoplastic-Polyurethane.php](http://www.lookpolymers.com/polymer_Huntsman-AVALON-98-AB-Thermoplastic-Polyurethane.php)

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in <sup>3</sup>	ISO 2781

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	98	98	ISO 868
Hardness, Shore D	56	56	ISO 868
Tensile Strength at Break	40.0 MPa	5800 psi	ISO 37
Elongation at Break	400 %	400 %	ISO 37
100% Modulus	0.0170 GPa	2.47 ksi	ISO 37
300% Modulus	0.0290 GPa	4.21 ksi	ISO 37
Flexural Modulus	0.135 GPa	19.6 ksi	ISO 178
Tear Strength	165 kN/m	941 pli	ISO 34B
Abrasion	35	35	mm <sup>3</sup> ; ISO 4649
Compression Set	20 %	20 %	ISO 815

Processing Properties	Metric	English	Comments
Feed Temperature	25.0 - 35.0 Â°C	77.0 - 95.0 Â°F	
Rear Barrel Temperature	200 - 210 Â°C	392 - 410 Â°F	
Middle Barrel Temperature	205 - 215 Â°C	401 - 419 Â°F	
Front Barrel Temperature	210 - 220 Â°C	410 - 428 Â°F	
Nozzle Temperature	200 - 210 Â°C	392 - 410 Â°F	
Mold Temperature	25.0 - 50.0 Â°C	77.0 - 122 Â°F	

Processing Properties	Metric	English	Comments
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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