

## Huntsman AVALON® 60 DE Thermoplastic Polyurethane

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

### Material Notes:

Introduction: AVALON 60 DE is a high performance polyester based thermoplastic polyurethane for injection molding. AVALON 60 DE is part of the AVALON Perform 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-60-DE-Thermoplastic-Polyurethane.php](http://www.lookpolymers.com/polymer_Huntsman-AVALON-60-DE-Thermoplastic-Polyurethane.php)

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in <sup>3</sup>	ISO 2781

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	ISO 868
Tensile Strength at Break	42.0 MPa	6090 psi	ISO 37
Elongation at Break	350 %	350 %	ISO 37
100% Modulus	0.0170 GPa	2.47 ksi	ISO 37
300% Modulus	0.0270 GPa	3.92 ksi	ISO 37
Tear Strength	188 kN/m	1070 pli	ISO 34B
Abrasion	40	40	mm <sup>3</sup> ; ISO 4649
Compression Set	25 %	25 %	ISO 815

Processing Properties	Metric	English	Comments
Feed Temperature	25.0 - 35.0 Â°C	77.0 - 95.0 Â°F	
Rear Barrel Temperature	190 - 210 Â°C	374 - 410 Â°F	
Middle Barrel Temperature	195 - 215 Â°C	383 - 419 Â°F	
Front Barrel Temperature	200 - 220 Â°C	392 - 428 Â°F	
Nozzle Temperature	195 - 210 Â°C	383 - 410 Â°F	
Mold Temperature	25.0 - 50.0 Â°C	77.0 - 122 Â°F	
Injection Pressure	2.00 - 10.0 MPa	290 - 1450 psi	
Hold Pressure	1.00 - 5.00 MPa	145 - 725 psi	

Processing Properties	Metric	English	Comments
Screw Speed	20 - 80 rpm	20 - 80 rpm	

Descriptive Properties	Value	Comments
Compression Ratio	2-3:1	
L/D Ratio	20-25:1	
Typical Screw Diameter	40-120 mm	

## Contact Songhan Plastic Technology Co.,Ltd.

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