

Huntsman AVALON® 80 AB Thermoplastic Polyurethane

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

Material Notes:

Introduction: AVALON 75 AB is a high performance polyester based thermoplastic polyurethane for injection molding. AVALON 75 AB is part of the AVALON Performance Range and offers a premium soling material for sports footwear and kipper soles. 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-80-AB-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ISO 2781

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	ISO 868
Hardness, Shore D	30	30	ISO 868
Tensile Strength at Break	30.0 MPa	4350 psi	ISO 37
Elongation at Break	500 %	500 %	ISO 37
100% Modulus	0.00500 GPa	0.725 ksi	ISO 37
300% Modulus	0.0130 GPa	1.89 ksi	ISO 37
Flexural Modulus	0.0250 GPa	3.63 ksi	ISO 178
Tear Strength	95.0 kN/m	542 pli	ISO 34B
Abrasion	35	35	mm 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	190 - 200 Â°C	374 - 392 Â°F	
Middle Barrel Temperature	195 - 205 Â°C	383 - 401 Â°F	
Front Barrel Temperature	200 - 210 Â°C	392 - 410 Â°F	
Nozzle Temperature	185 - 195 Â°C	365 - 383 Â°F	
Mold Temperature	25.0 - 50.0 Â°C	77.0 - 122 Â°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	

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