

Huntsman AVALON[®] 95 AE Thermoplastic Polyurethane

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

Material Notes:

Introduction: AVALON 95 AE is a general purpose polyester based thermoplastic polyurethane for injection molding. AVALON 95 AE is part of the AVALON Perform Range and offers a premium soiling 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-95-AE-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	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	33.0 MPa	4790 psi	ISO 37
Elongation at Break	400 %	400 %	ISO 37
100% Modulus	0.0110 GPa	1.60 ksi	ISO 37
300% Modulus	0.0180 GPa	2.61 ksi	ISO 37
Tear Strength	130 kN/m	742 pli	ISO 34B
Abrasion	35	35	mm ³ ; ISO 4649
Compression Set	20 %	20 %	ISO 815

Processing Properties	Metric	English	Comments
Feed Temperature	25.0 - 35.0 Å°C	77.0 - 95.0 Å°F	
Rear Barrel Temperature	185 - 195 Å°C	365 - 383 Å°F	
Middle Barrel Temperature	190 - 200 Å°C	374 - 392 Å°F	
Front Barrel Temperature	195 - 205 Å°C	383 - 401 Å°F	
Nozzle Temperature	180 - 190 Å°C	356 - 374 Å°F	
Mold Temperature	25.0 - 50.0 Å°C	77.0 - 122 Å°F	
Injection Pressure	2.00 - 10.0 MPa	290 - 1450 psi	

Processing Properties	Metric	English	Comments
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	-10Å°C, BS 5131	
Typical Screw Diameter	40-120 mm	

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