

Huntsman AVALON[®] 60 DB Thermoplastic Polyurethane

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

Material Notes:

Introduction: AVALON 60 DB is a high performance polyester based thermoplastic polyurethane for injection molding. AVALON 60 DB 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-DB-Thermoplastic-Polyurethane.php

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

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	ISO 868
Tensile Strength at Break	43.0 MPa	6240 psi	ISO 37
Elongation at Break	350 %	350 %	ISO 37
100% Modulus	0.0190 GPa	2.76 ksi	ISO 37
300% Modulus	0.0310 GPa	4.50 ksi	ISO 37
Flexural Modulus	0.184 GPa	26.7 ksi	ISO 178
Tear Strength	180 kN/m	1030 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	190 - 210 Å°C	374 - 410 Å°F	
Middle Barrel Temperature	195 - 215 Å°C	383 - 419 Å°F	
Front Barrel Temperature	200 - 220 Å°C	392 - 428 Å°F	
Nozzle Temperature	195 - 210 Å°C	383 - 410 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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