

Huntsman AVALON[®] 65 DB Thermoplastic Polyurethane

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

Material Notes:

Introduction: AVALON 65 DB is a polyester based thermoplastic polyurethane for injection molding. AVALON 65 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-65-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	65	65	ISO 868
Tensile Strength at Break	45.0 MPa	6530 psi	ISO 37
Elongation at Break	350 %	350 %	ISO 37
100% Modulus	0.0220 GPa	3.19 ksi	ISO 37
300% Modulus	0.0340 GPa	4.93 ksi	ISO 37
Flexural Modulus	0.250 GPa	36.3 ksi	ISO 178
Tear Strength	220 kN/m	1260 pli	ISO 34B
Abrasion	<= 35	<= 35	mm ³ ; 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 Processing Properties	1.00 - 5.00 MPa Metric	145 - 725 psi 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	
Typical Screw Diameter	40-120 mm	

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