

Huntsman AVALON[®] 85 ABR Thermoplastic Polyurethane

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

Material Notes:

Introduction: AVALON 85 ABR is a high performance polyester based thermoplastic polyurethane for injection molding. AVALON 85 ABR is part of the AVALON Performance Range and offers a premium soling material for demanding applications where exceptional abrasion resistance is required such as soccer studs and sports cleats. The features offered include: Cut and scratch resistance Excellent abrasion resistance Cold flex resistance Phthalate free TPU Information provided by Alliance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Huntsman-AVALON-85-ABR-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	85	85	ISO 868
Hardness, Shore D	37	37	ISO 868
Tensile Strength at Break	30.0 MPa	4350 psi	ISO 37
Elongation at Break	475 %	475 %	ISO 37
100% Modulus	0.00600 GPa	0.870 ksi	ISO 37
300% Modulus	0.0140 GPa	2.03 ksi	ISO 37
Flexural Modulus	0.0300 GPa	4.35 ksi	ISO 178
Tear Strength	105 kN/m	599 pli	ISO 34B
Abrasion	20	20	mm ³ ; 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
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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