

Huntsman AVALON® 70 AE Thermoplastic Polyurethane

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

Material Notes:

Introduction: AVALON 70 AE is a general purpose polyester based thermoplastic polyurethane for injection molding. AVALON 70 AE is part of the AVALON Soft Range and offers a premium soiling material for casual, sport and protect foot wear. The features offered include: Cut & scratch resistance, Rapid processing, 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-70-AE-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	ISO 2781

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	70	70	ISO 868
Tensile Strength at Break	22.0 MPa	3190 psi	ISO 37
Elongation at Break	700 %	700 %	ISO 37
100% Modulus	0.00300 GPa	0.435 ksi	ISO 37
300% Modulus	0.00500 GPa	0.725 ksi	ISO 37
Tear Strength	65.0 kN/m	371 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 Â°C	77.0 - 95.0 Â°F	
Rear Barrel Temperature	170 - 185 Â°C	338 - 365 Â°F	
Middle Barrel Temperature	175 - 190 Â°C	347 - 374 Â°F	
Front Barrel Temperature	180 - 195 Â°C	356 - 383 Â°F	
Nozzle Temperature	175 - 190 Â°C	347 - 374 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	1.00 - 5.00 MPa	145 - 725 psi	

Back Pressure Processing Properties	0.0300 - 0.300 MPa Metric	4.35 - 43.5 psi English	Comments
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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