

Huntsman AVALON® 65 DEU Thermoplastic Polyurethane

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

Material Notes:

Introduction: AVALON 65 DEU is a high performance UV-stabilized polyester based thermoplastic polyurethane for injection molding. AVALON 65 DEU is part of the AVALON Perform Range and offers a premium soling material for the sporting goods and fashion markets and is supplied with a high degree of stabilization against premature yellowing from sunlight. The features offered include:UV resistance Excellent surface definitionAbrasion resistanceFlex resistancePhthalate free TPU Information provided by Alliance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Huntsman-AVALON-65-DEU-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in ³	ISO 2781

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ISO 868
Tensile Strength at Break	43.0 MPa	6240 psi	ISO 37
Elongation at Break	300 %	300 %	ISO 37
100% Modulus	0.0240 GPa	3.48 ksi	ISO 37
300% Modulus	0.0330 GPa	4.79 ksi	ISO 37
Tear Strength	224 kN/m	1280 pli	ISO 34B
Abrasion	<= 40	<= 40	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	1.00 - 5.00 MPa	145 - 725 psi	

Processing Properties	Metric	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	
Typical Screw Diameter	40-120 mm	

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