

Huntsman AVALON[®] 55 AEX Thermoplastic Polyurethane

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

Material Notes:

Introduction: AVALON 55 AEX is a high performance polyester based thermoplastic polyurethane for injection molding. AVALON 55 AEX is part of the AVALON Perform Range and offers a specially designed, flexible material with improved slip resistance and rubber-like properties, particularly suitable for TPU/PU applications. The features offered include: Improved processing Lower density 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-55-AEX-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	DIN 53479

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	57	57	DIN 53505
Tensile Strength at Break	>= 7.00 MPa	>= 1020 psi	DIN 53504
Elongation at Break	>= 800 %	>= 800 %	DIN 53504
Tear Strength	>= 15.0 kN/m	>= 85.6 pli	DIN 53507
Abrasion	<= 100	<= 100	mm ³ ; DIN 53516

Processing Properties	Metric	English	Comments
Feed Temperature	25.0 - 35.0 Â°C	77.0 - 95.0 Â°F	
Rear Barrel Temperature	155 - 175 Â°C	311 - 347 Â°F	
Middle Barrel Temperature	160 - 180 Â°C	320 - 356 Â°F	
Front Barrel Temperature	160 - 185 Â°C	320 - 365 Â°F	
Nozzle Temperature	155 - 180 Â°C	311 - 356 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	0.0300 - 0.300 MPa	4.35 - 43.5 psi	
Screw Speed	20 - 100 rpm	20 - 100 rpm	

Descriptive Properties	Value	Comments
Compression Ratio	2-3:1	
Flex Life	>100 k cycles	DIN 53522 T3
L/D Ratio	20-25:1	
Typical Screw Diameter	40-120 nm	

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