

Huntsman AVALON® 80 ABX Thermoplastic Polyurethane

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

Material Notes:

Introduction: AVALON 80 ABX is a high performance polyester based thermoplastic polyurethane for injection molding. AVALON 80 ABX 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 thin outsoles. 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-80-ABX-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	DIN 53479

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	81	81	DIN 53505
Hardness, Shore D	30	30	DIN 53505
Tensile Strength at Break	>= 25.0 MPa	>= 3630 psi	DIN 53504
Elongation at Break	>= 650 %	>= 650 %	DIN 53504
Tear Strength	>= 35.0 kN/m	>= 200 pli	DIN 53507
Abrasion	<= 55	<= 55	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	170 - 190 Â°C	338 - 374 Â°F	
Middle Barrel Temperature	175 - 195 Â°C	347 - 383 Â°F	
Front Barrel Temperature	175 - 200 Â°C	347 - 392 Â°F	
Nozzle Temperature	170 - 195 Â°C	338 - 383 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 - 80 rpm	20 - 80 rpm	

Processing Properties	Metric	English	Comments
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	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China