AVALON® 60 ABX

Thermoplastic Polyurethane Elastomer (Polyester)

Huntsman Corporation

Message:

AVALON 60 ABX is a high performance polyester based thermoplastic polyurethane for injection moulding.

AVALON 60 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 TPU/PU applications.

The features offered include:

Improved processing

Lower density

Excellent surface definition

Abrasion resistance

Flex resistance

Phthalate free TPU

General Information			
Features	Good flexibility		
	Good wear resistance		
	Excellent appearance		
Uses	Footwear		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.08	g/cm³	DIN 53479
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	60		DIN 53505
Mechanical	Nominal Value	Unit	Test Method
Abrasion Resistance		mm³	DIN 53516
Bending life	> 1.0E+5	Cycles	DIN 53522
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (Break)	> 15.0	МРа	DIN 53504
Tensile Elongation (Break)	> 600	%	DIN 53504
Tear Strength ¹	> 20	kN/m	DIN 53515
Additional Information			
Test plates conditioned 20 hours at 100°C	before testing		
Injection	Nominal Value	Unit	
Drying Temperature - Desiccant Dryer	80.0 - 90.0	°C	
Drying Time - Desiccant Dryer	2.0	hr	
Hopper Temperature	25.0 - 35.0	°C	
Rear Temperature	150 - 170	°C	
Middle Temperature	155 - 175	°C	
Front Temperature	155 - 180	°C	

Nozzle Temperature	150 - 175	°C	
Mold Temperature	25.0 - 50.0	°C	
Injection Pressure	2.00 - 10.0	МРа	
Injection Rate	Slow		
Holding Pressure	1.00 - 5.00	МРа	
Back Pressure	0.0300 - 0.300	МРа	
Screw Speed	20 - 80	rpm	
Screw L/D Ratio	20.0:1.0 to 25.0:1.0		
Screw Compression Ratio	2.0 : 1.0 - 3.0 : 1.0		
Injection instructions			

Typical Screw Diameter : 40 - 120 mm3 Stage Design

Feed Zone: 0.4L Compression Zone: 0.3L Metering Zone: 0.3L

NOTE

1.

Method B, right-angle specimen

(without cut)

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