

**AVALON® 80 AB**

TPU

Huntsman Polymers Corp.

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Flexural modulus, 23°C	25	MPa	ISO 178
Tensile Strength	30	MPa	ISO 37
Strain at break	500	%	ISO 37
Compression set at 23 °C, 24h	20	%	ISO 815
Tear strength	95	kN/m	ISO 34-1
Abrasion resistance	35	mm <sup>3</sup>	ISO 4649
Shore A hardness	80	-	ISO 7619-1
Shore D hardness	30	-	ISO 7619-1

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Density	1200	kg/m <sup>3</sup>	ISO 1183

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	80 - 90	°C	-
Pre-drying - Time	2	h	-
Mold temperature	25 - 50	°C	-
Feed temperature	25 - 35	°C	-
Zone 1	175 - 185	°C	-
Zone 2	180 - 190	°C	-
Zone 3	185 - 195	°C	-
Nozzle temperature	175 - 190	°C	-
Screw speed	20 - 80	rpm	-
Injection pressure	2 - 10	MPa	-
Back pressure	0.03 - 0.3	MPa	-
Holding pressure	1 - 5	MPa	-

**Characteristics****Processing**

Injection Molding

**Features**

Scratch Resistant

**Chemical Resistance**

Hydrolytically Stable

**Applications**

Sports Equipment

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America, Near East/Africa