

**AVALON® 90 AK**

TPU

Huntsman Polymers Corp.

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Strength	<b>45</b>	MPa	ISO 37
Strain at break	<b>450</b>	%	ISO 37
Tear strength	<b>110</b>	kN/m	ISO 34-1
Abrasion resistance	<b>50</b>	mm <sup>3</sup>	ISO 4649
Shore A hardness	<b>90</b>	-	ISO 7619-1
Shore D hardness	<b>44</b>	-	ISO 7619-1

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Density	<b>1210</b>	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	<b>80 - 90</b>	°C	-
Pre-drying - Time	<b>2</b>	h	-
Mold temperature	<b>25 - 50</b>	°C	-
Feed temperature	<b>25 - 35</b>	°C	-
Zone 1	<b>195 - 205</b>	°C	-
Zone 2	<b>205 - 215</b>	°C	-
Zone 3	<b>210 - 220</b>	°C	-
Nozzle temperature	<b>205 - 215</b>	°C	-
Screw speed	<b>20 - 80</b>	rpm	-
Injection pressure	<b>2 - 10</b>	MPa	-
Back pressure	<b>0.03 - 0.3</b>	MPa	-
Holding pressure	<b>1 - 5</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Special Characteristics**

U.V. stabilized or stable to weather, Transparent

**Features**

Scratch Resistant

**Applications**

Sports Equipment

**Regional Availability**

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