

AVALON® 85 AB

TPU

Huntsman Polymers Corp.

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Flexural modulus, 23°C	30	MPa	ISO 178
Tensile Strength	30	MPa	ISO 37
Strain at break	475	%	ISO 37
Compression set at 23 °C, 24h	20	%	ISO 815
Tear strength	105	kN/m	ISO 34-1
Abrasion resistance	35	mm ³	ISO 4649
Shore A hardness	85	-	ISO 7619-1
Shore D hardness	37	-	ISO 7619-1

Other properties	Value	Unit	Test Standard
Density	1200	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80 - 90	°C	-
Pre-drying - Time	2	h	-
Mold temperature	25 - 50	°C	-
Feed temperature	25 - 35	°C	-
Zone 1	190 - 200	°C	-
Zone 2	195 - 205	°C	-
Zone 3	200 - 210	°C	-
Nozzle temperature	185 - 195	°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