

# ChronoThane T™ 93A-B20

TPU

AdvanSource Biomaterials

## Product Texts

Aliphatic polyether-based urethane.

## Processing/Physical Characteristics

	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index, MFI	14	g/10min	ASTM D 1238
Temperature	205	°C	-
Load	3.26	kg	-

## Mechanical properties

	Value	Unit	Test Standard
<b>ASTM Data</b>			
Tensile Strength	42.7	MPa	ASTM D 638
Elongation at Break	525	%	ASTM D 638
Shore A Hardness	93	-	ASTM D 2240

## Other properties

	Value	Unit	Test Standard
Water Absorption, Equilibrium	1.08	%	ASTM D 570

## Processing Recommendation Injection Molding

	Value	Unit	Test Standard
Pre-drying - Temperature	71.1 - 93.3	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.05	%	-
Melt temperature	182 - 204	°C	-
Zone 1	166 - 188	°C	-
Zone 2	171 - 193	°C	-
Zone 3	177 - 199	°C	-
Nozzle temperature	182 - 204	°C	-

## Processing Recommendation Extrusion

	Value	Unit	Test Standard
Pre-drying - Temperature	71.1 - 93.3	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.05	%	-
Melt temperature	182 - 204	°C	-
Zone 1	166 - 188	°C	-
Zone 2	171 - 193	°C	-
Zone 3	177 - 199	°C	-
Nozzle temperature	182 - 204	°C	-

## Characteristics

### Processing

Injection Molding, Other Extrusion

### Delivery form

Pellets

### Special Characteristics

High impact or impact modified

### Certifications

Contains renewable resources, Medical Grade, Biocompatibility ISO 10993, US Pharmacopeia Class VI Approved

### Applications

Medical

### Regional Availability

North America