

ChronoThane T™ 93A-B40

TPU

AdvanSource Biomaterials

Product Texts

Aliphatic polyether-based urethane.

Processing/Physical Characteristics

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

Mechanical properties

	Value	Unit	Test Standard
ASTM Data			
Tensile Strength	36.2	MPa	ASTM D 638
Elongation at Break	500	%	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