

ChronoSil® 80A

(TPU+SI)

AdvanSource Biomaterials

Product Texts

Thermoplastic silicone polycarbonate elastomer (with 5% silicone).

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	35.5	MPa	ASTM D 638
Elongation at Break	550	%	ASTM D 638
Shore A Hardness	80	-	ASTM D 2240

Other properties	Value	Unit	Test Standard
Water Absorption, Equilibrium	0.6	%	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	188 - 210	°C	-
Zone 1	149 - 171	°C	-
Zone 2	149 - 171	°C	-
Zone 3	171 - 193	°C	-
Nozzle temperature	193 - 216	°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	188 - 210	°C	-
Zone 1	149 - 171	°C	-
Zone 2	149 - 171	°C	-
Zone 3	171 - 193	°C	-
Nozzle temperature	193 - 216	°C	-

Characteristics**Processing**

Injection Molding, Other Extrusion

Delivery form

Pellets

Chemical Resistance

General Chemical Resistance, Environmental Stress Crack Resistance

Certifications

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

Applications

Medical

Regional Availability

North America