

ChronoFlex® C 80A

Polyurethane
CardioTech International, Inc.

Message:

ChronoFlex®C 80A is a polyurethane material. This product is available in North America and is processed by extrusion. ChronoFlex®The main characteristics of C 80A are: chemical resistance.
ChronoFlex®The typical application areas of C 80A are: medical/health care

General Information			
Features	Aroma		
	Solvent resistance		
Uses	Medical/nursing supplies		
Appearance	Clear/transparent		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (210°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Water Absorption (Equilibrium)	1.2	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ASTM D638
100% secant: 23°C	6.96	MPa	ASTM D638
300% secant: 23°C	7.24	MPa	ASTM D638
Tensile Strength (Break, 23°C)	41.4	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	450	%	ASTM D638
Flexural Modulus	37.9	MPa	ASTM D790
Flexural Strength	2.41	MPa	ASTM D790
Coefficient of Friction (vs. Itself - Dynamic)	1.5		ASTM D1894
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	5.34	MPa	ASTM D412
300% strain	4.14	MPa	ASTM D412
Tensile Strength (Yield)	45.5	MPa	ASTM D412
Tensile Elongation (Yield)	480	%	ASTM D412
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	71.1	°C	ASTM D1525
Melting Temperature	191 - 221	°C	

Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	14	kV/mm	ASTM D149

Additional Information

Ultimate Tensile Strength, ASTM D638, 73 °F: 5500 to 6500 psiUltimate Tensile Strain, ASTM D638, 73 °F: 400 to 490 %100% Secant Modulus, ASTM D638, 73 °F: 770 to 1250 psi300% Secant Modulus, ASTM D638, 73 °F: 700 to 1400 psiAbrasion Resistance, ASTM D1044, 1000 cycles: 0.008%Recommended Sterilization Method, No standard: GammaClass VI Biocompatibility Test, USP XXII: Pass

Extrusion	Nominal Value	Unit
Drying Time	3.0 - 4.0	hr
Cylinder Zone 1 Temp.	160	°C
Cylinder Zone 2 Temp.	166	°C
Cylinder Zone 3 Temp.	171	°C
Melt Temperature	174	°C
Die Temperature	174	°C

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