

ChronoFlex® C 75D

Polyurethane

CardioTech International, Inc.

Message:

ChronoFlex®C 75D is a polyurethane material. This product is available in North America and is processed by extrusion. ChronoFlex®The main characteristics of C 75D are: chemical resistance.

ChronoFlex®The typical application areas of C 75D 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/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (210°C/2.16 kg)	3.0	g/10 min	ASTM D1238
Water Absorption (Equilibrium)	0.80	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	75		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ASTM D638
100% secant: 23°C	37.9	MPa	ASTM D638
300% secant: 23°C	20.3	MPa	ASTM D638
Tensile Strength (Break, 23°C)	51.7	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	290	%	ASTM D638
Flexural Modulus	2070	MPa	ASTM D790
Flexural Strength	68.9	MPa	ASTM D790
Coefficient of Friction (vs. Itself - Dynamic)	0.64		ASTM D1894
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	37.9	MPa	ASTM D412
Tensile Strength (Yield)	62.1	MPa	ASTM D412
Tensile Elongation (Yield)	250	%	ASTM D412
Thermal	Nominal Value	Unit	
Melting Temperature	191 - 221	°C	
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	17	kV/mm	ASTM D149
Additional Information			

Ultimate Tensile Strength, ASTM D638, 73 °F: 7000 to 8000 psiUltimate Tensile Strain, ASTM D638, 73 °F: 255 to 320 %100% Secant Modulus, ASTM D638, 73 °F: 5300 to 5700 psi300% Secant Modulus, ASTM D638, 73 °F: 2700 to 3200 psiAbrasion Resistance, ASTM D1044, 1000 cycles: 0.053%Recommended Sterilization Method, No standard: Ethylene oxideClass VI Biocompatibility Test, USP XXII: Pass

Extrusion	Nominal Value	Unit
Drying Time	3.0 - 4.0	hr
Cylinder Zone 1 Temp.	216	°C
Cylinder Zone 2 Temp.	224	°C
Cylinder Zone 3 Temp.	232	°C
Melt Temperature	238	°C
Die Temperature	238	°C

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