

ChronoThane™ P 80A

Polyurethane (MDI)

CardioTech International, Inc.

Message:

ChronoThane™P 80A is a polyurethane (MDI) (PUR-MDI) material. This product is available in North America and is processed by extrusion.

ChronoThane™The main features of P 80A are:

Good processability

sterilizable

Good dimensional stability

Wear-resistant

ChronoThane™The typical application areas of P 80A are: medical/health care

General Information			
Features	Good dimensional stability		
	Low extract		
	Low friction coefficient		
	Aroma		
	Radiation disinfection		
	Workability, good		
	Durability		
Uses	Medical/nursing supplies		
Appearance	Amber		
Forms	Particle		
Processing Method	Extrusion		
Hardness	Nominal Value		Test Method
Durometer Hardness (Shore A)	80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	103	MPa	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	5.86	MPa	ASTM D412
300% strain	12.1	MPa	ASTM D412
Tensile Strength (Yield)	35.2	MPa	ASTM D412
Tensile Elongation (Yield)	550	%	ASTM D412
Tear Strength ¹	73.6	kN/m	ASTM D624
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	85.0	°C	ASTM D1525
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	193	°C	
Cylinder Zone 2 Temp.	193	°C	
Cylinder Zone 3 Temp.	193	°C	

Melt Temperature	210	°C
Die Temperature	204	°C
Extrusion instructions		
Clamp Temperature: 400 °FL/D Screw Ratio: 24:1Compression Ratio: 2.5Flight Distribution: 12-6-6Cooling Water Temperature: 70 to 110 °F		
NOTE		
1.	C mould	

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