

Cawiton® MT970

Styrene Ethylene Butylene Styrene Block Copolymer
Wittenburg B.V.

Message:

Cawiton MT970 is a Styrene Ethylene Butylene Styrene Block Copolymer (SEBS) material. It is available in Europe for injection molding.
Important attributes of Cawiton MT970 are:
Sterilizable
Copolymer
Food Contact Acceptable
Typical application of Cawiton MT970: Medical/Healthcare

General Information			
Features	Block Copolymer		
	Ethylene Oxide Sterilizable		
	Food Contact Acceptable		
	Radiation Sterilizable		
	Steam Sterilizable		
Uses	Medical/Healthcare Applications		
Agency Ratings	USP Class VI		
Appearance	Translucent		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm³	ISO 2781
Melt Mass-Flow Rate (MFR) (230°C/5.0 kg)	21	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	70		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ISO 37
Across Flow : 100% Strain	2.30	MPa	
Flow : 100% Strain	3.40	MPa	
Across Flow : 200% Strain	2.90	MPa	
Flow : 200% Strain	4.00	MPa	
Across Flow : 300% Strain	3.80	MPa	
Flow : 300% Strain	4.10	MPa	
Tensile Stress			ISO 37
Across Flow : Yield	14.1	MPa	
Flow : Yield	5.00	MPa	
Tensile Elongation			ISO 37
Across Flow : Break	630	%	
Flow : Break	350	%	

Tear Strength			ISO 34-1
Across Flow	33	kN/m	
Flow	37	kN/m	
Compression Set (70°C, 22 hr)	55	%	ISO 815
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC) ¹	166	°C	DSC
Injection	Nominal Value	Unit	
Hopper Temperature	30.0 to 60.0	°C	
Rear Temperature	180 to 220	°C	
Middle Temperature	190 to 230	°C	
Front Temperature	190 to 230	°C	
Nozzle Temperature	200 to 240	°C	
Processing (Melt) Temp	180 to 240	°C	
Mold Temperature	20.0 to 40.0	°C	
NOTE			

1. Measured with a differential scanning calorimeter

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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