

Cawiton® MT990

Styrene Ethylene Butylene Styrene Block Copolymer

Wittenburg B.V.

Message:

Cawiton MT990 is a Styrene Ethylene Butylene Styrene Block Copolymer (SEBS) material. It is available in Europe for injection molding.

Important attributes of Cawiton MT990 are:

Sterilizable

Copolymer

Food Contact Acceptable

Typical application of Cawiton MT990: 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/cm ³	ISO 2781
Melt Mass-Flow Rate (MFR) (230°C/5.0 kg)	35	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	90		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ISO 37
Across Flow : 100% Strain	3.50	MPa	
Flow : 100% Strain	5.30	MPa	
Across Flow : 200% Strain	4.30	MPa	
Flow : 200% Strain	6.00	MPa	
Across Flow : 300% Strain	5.60	MPa	
Flow : 300% Strain	6.20	MPa	
Tensile Stress			ISO 37
Across Flow : Yield	18.8	MPa	
Flow : Yield	9.20	MPa	
Tensile Elongation			ISO 37
Across Flow : Break	660	%	
Flow : Break	510	%	

Tear Strength			ISO 34-1
Across Flow	58	kN/m	
Flow	56	kN/m	
Compression Set (70°C, 22 hr)	65	%	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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