

# SUSTARIN® C MG

Acetal (POM) Copolymer  
Röchling Sustaplast SE & Co. KG

Message:

- Product characteristics
- Well-balanced combination of rigidity, mechanical strength and toughness
- USP VI and ISO 10993 tested on semi-finished products
- Multi-sterilisable with hot steam, plasma as well as ethylene oxide
- Typical fields of application
- Medical technology
- Pharmaceutical industry

General Information	
Features	Ethylene Oxide Sterilizable
	Steam Sterilizable
Uses	Medical Devices
	Medical/Healthcare Applications
	Pharmaceuticals
Agency Ratings	ISO 10993
	USP Class VI

Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm <sup>3</sup>	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	0.20	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	81		ISO 868
Ball Indentation Hardness	150	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2800	MPa	ISO 527-2
Tensile Stress (Yield)	67.0	MPa	ISO 527-2
Tensile Strain (Break)	30	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	6.0	kJ/m <sup>2</sup>	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	110	°C	ISO 75-2/A
Continuous Use Temperature			
-- 1	-50.0 to 100	°C	
-- 2	< 140	°C	
Melting Temperature	165	°C	ISO 11357-3

CLTE - Flow	1.1E-4	cm/cm/°C	DIN 53752
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+13	ohms·cm	IEC 60093
Electric Strength	40	kV/mm	IEC 60243-1
Dielectric Constant	3.80		IEC 60250
Dissipation Factor (50 Hz)	2.0E-3		IEC 60250
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
3.00 mm	HB		
6.00 mm	HB		
NOTE			
1.	Long Term		
2.	Short Term		

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