

SUSTAPEEK MG natural

Polyetheretherketone

Röchling Sustaplast SE & Co. KG

Message:

- Product characteristics
- High purity
- USP VI and ISO 10993 tested on semi-finished products
- Very good sterilisation resistance
- Typical fields of application
- Medical technology
- Pharmaceutical industry
- Precision engineering

General Information			
Features	High Purity		
Uses	Engineered Applications		
	Medical Devices		
	Medical/Healthcare Applications		
	Pharmaceuticals		
Agency Ratings	ISO 10993		
	USP Class VI		
Appearance	Natural Color		
Physical	Nominal Value	Unit	Test Method
Density	1.31	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	0.20	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	88		ISO 868
Ball Indentation Hardness	230	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4000	MPa	ISO 527-2
Tensile Stress (Yield)	110	MPa	ISO 527-2
Tensile Strain (Break)	20	%	ISO 527-2
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	152	°C	ISO 75-2/A
Continuous Use Temperature			
-- 1	-60.0 to 250	°C	
-- 2	< 310	°C	
Melting Temperature	343	°C	ISO 11357-3
CLTE - Flow	5.0E-5	cm/cm/°C	DIN 53752

Specific Heat	1340	J/kg/°C	DIN 52612
Thermal Conductivity	0.25	W/m/K	DIN 52612
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+18	ohms	IEC 60093
Volume Resistivity	4.9E+16	ohms·cm	IEC 60093
Electric Strength	20	kV/mm	IEC 60243-1
Dielectric Constant	3.20		IEC 60250
Dissipation Factor (50 Hz)	1.0E-3		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
3.00 mm	V-0		
6.00 mm	V-0		
NOTE			
1.	Long Term		
2.	Short Term		

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