

# Technical data sheet

## SUSTANAT PC MG (Medical Grade Polycarbonate)

### Product characteristics

- Good dimensional stability & extremely high impact strength
- Low moisture absorption
- High heat deflection

### Typical field of application

- Medical industry

Physical Properties	tested method	unit	value
Specific Gravity	D792	g/cm <sup>3</sup>	1.20
Water Absorption 24 hours	D570	%	0.15
Water Absorption Saturation	D570	%	0.35
Dissipation Factor	D150	1 MHz	0.006
Mechanical Properties	tested method	unit	value
Hardness	D785	Shore D	D80
Rockwell Hardness	D785	M	M75
Rockwell Hardness	D785	R	R126
Tensile Strength at yield 73 °F	D638	psi	10,000
Tensile Modulus	D638	psi	320,000
Elongation at Break	D638	%	75
Flexural Strength	D790	psi	13,000
Flexural Modulus	D790	psi	340,000
Izod Impact, Notched	D256	ft-lb/in	10.0
Thermal Properties	tested method	unit	value
CTE, linear	D696	in/in/°F	3.8x10 <sup>-5</sup>
Melting Point	D3418	°F	310
Continuous Use	-	°F	250
Thermal Conductivity	-	in/hr/ft <sup>2</sup> /F°	1.3
Deflection Temperature at 1.8Mpa (66psi)	D648	°F	295
Deflection Temperature at 1.8Mpa (264psi)	D648	°F	280
Flammability, UL94	-	3 mm	HB
Electrical Properties	tested method	unit	value
Surface resistivity	D257	Ohm/cm	>10 <sup>13</sup>
Compliance Properties	tested method	unit	value
FDA	21EFR177.1582	-	Yes
ASTM	D6098 PC0111	-	Yes
ASTM	D3935 PC0111	-	Yes
USP Class VI	-	-	Yes

The data stated above are average values ascertained by statistical tests on a regular basis. The data above are provided purely for information and shall not be regarded as binding unless expressly agreed in a contract of sale.