

Technical data sheet

SUSTANAT PC (Polycarbonate)

Product characteristics

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

Typical field of application

- Electrical applications
- Safety engineering
- Automotive industry

Physical Properties	tested method	unit	value
Specific Gravity	D792	g/cm ³	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
Compressive Strength	D695	psi	11,500
Shear Strength	D732	psi	9,000
Izod Impact, Notched	D256	ft-lb/in	10.0
Coefficient of Friction	-	-	0.38
Thermal Properties	tested method	unit	value
CTE, linear	D696	in/in/°F	3.8x10 ⁻⁵
Melting Point	D3418	°F	310
Continuous Use	-	°F	250
Thermal Conductivity	-	in/hr/ft ² /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
Dielectric constant	D150	-	3.2
Surface resistivity	D257	Ohm/cm	≥10 ¹³
Dielectric strength	D149	V/mil	380
Compliance Properties	tested method	unit	value
FDA	-	-	No

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.