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## Sustanat® PC, Sustanat® GF 20 & Sustanat® Optical

Sustanat® PC is machine grade polycarbonate ideally suited for applications demanding high impact strength.

Sustanat® PC is an amorphous product that exhibits food electrical properties along with excellent dimensional stability and mechanical properties.

Typical Properties of Stock Shapes			Natural	20% Glass	Optical
Property	Units	Test	Value	Value	Value
Specific Gravity		ASTM D 792	1.2	1.35	1.2
Moisture Absorption,					
24 hrs	%	ASTM D	0.15	0.16	0.15
Equilibrium	%	ASTM D 570	0.35	0.29	0.35
Flammability		UL 94	V-0	HB	V-0
Tensile Strength	psi	ASTM D 638	10,000	16,000	10,000
Elongation	%	ASTM D 638	75	6	75
Modulus	psi	ASTM D 648	320,000	860,000	320,000
Flexural Strength	psi	ASTM D 638	13,000	19,000	13,000
Modulus	psi	ASTM D 790	340,000	800,000	340,000
Notched Izod	ft-lb/in notch	ASTM D 256	13	2	13
Rockwell Hard-		ASTM D 785	M75	M91	M75
HDT @ 264 psi	°F	ASTM D 648	280	295	280
Coefficient of thermal expansion	in/in/°F	ASTM E 831	3.80 x 10 <sup>-5</sup>	1.5 x 10 <sup>-5</sup>	3.80 x 10 <sup>-5</sup>
Dielectric Strength	V / mil	ASTM D 149	380	490	380
Volume Resistivity	ohm-cm	ASTM D 257	10 <sup>17</sup>	10 <sup>17</sup>	10 <sup>17</sup>
Dielectric Constant		ASTM D 150	3.2	3.13	3.2



### Product Features

Very high toughness to -20° C  
 Good electrical insulation properties  
 High mechanical retention at 140° C  
 Intrinsic flame retardant

### Typical Applications

Impact guards  
 Headlamp lenses  
 Electrical components  
 Fluid handling parts  
 Manifolds  
 Wheel covers  
 Instrument components  
 View ports  
 Site glasses

### Certifications

ASTM D6098 PC 01000  
 Certain grades can meet:  
 FDA 21 CFR 177.1580

Property data is based on typical values of resin as presented in an injection molded plaque. All information contained herein is presented in good faith based upon testing and practical experience. These values are not intended for use in establishing specification values.

Sustaplast does not guarantee the accuracy and completeness of this information and it is the customer's sole responsibility to determine the suitability of the products in any given application