

## Technical Data Sheet

# Sustadur<sup>®</sup> PBT - ASTM

### Typical characteristics

- Low moisture absorption
- Good impact strength
- Good sliding properties
- high tensile strength and stiffness
- Good machinability
- good adhesive properties
- Good weldability
- Good thermal stability
- Good wear resistance

	Test method	Unit	Guideline value
<b>General properties</b>			
Density	ASTM D792	g / cm <sup>3</sup>	1.31
Water Absorption 24 hours	ASTM D570	%	0.25
Water Absorption Saturation	ASTM D570	%	0.4
<b>Mechanical properties</b>			
Tensile Strength at yield 73°F	ASTM D638	psi	8000
Tensile Modulus	ASTM D638	psi	425000
Elongation at Break	ASTM D638	%	30
Flexural Strength	ASTM D790	psi	14000
Flexural Modulus	ASTM D790	psi	425000
Rockwell Hardness	ASTM D785		72
Izod Impact, Notched	ASTM D256	ft-lb/in	0.6
<b>Thermal properties</b>			
Thermal Conductivity		in/hr/ft <sup>2</sup> /°F	1.4
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F x10 <sup>-5</sup>	4.0
Melting Point	ASTM D789	°F	430



	Test method	Unit	Guideline value
Continuous Service Temperature, Air		°F	230
Deflection Temperature at 1.8Mpa (264psi)	ASTM D648	°F	175
Deflection Temperature at 1.8Mpa (66psi)	ASTM D648	°F	320
Flammability, UL94		1/8 inch	HB
<b>Electrical properties</b>			
Dielectric constant	ASTM D150	1MHz	3
Dielectric strength	ASTM D149	V/mil	400
Surface resistivity	ASTM D257	Ω/cm	>10 <sup>13</sup>
<b>Compliance properties</b>			
FDA			Yes
NSF			No
USDA			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.

