



BOEDEKER PLASTICS, INC.



The New Caustic Washdown & Wear Resistant Plastic Solution up to 248F Sustakon® Blue PK Polyketone

Food & Beverage Industry | Pharmaceutical Industry



Sustakon® Blue is an excellent choice for replacing acetals, nylons and polyester based materials in applications that require a dimensionally stable, tougher more chemically resistant material in higher temperature applications. Sustakon® Blue is ideal in caustic washdown applications, where acetals, nylons and polyesters are chemically attacked. Sustakon Blue is also a lower cost alternative to replace PVDF, PEEK and other high-performance materials up to 248F.

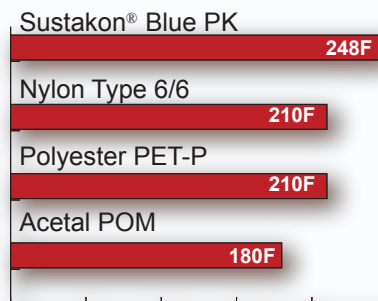
Applications

- Mixing Paddles / Scraper Blades
- Bushings, Bearings & Rollers
- Seals & Sealing Components
- CIP / COP Components

Key Features & Benefits

- 248 F / 120 C Max Operating Temp.
- FDA Compliant
- Outstanding Chemical Resistance
- Blue in Color for Visual Detection
- Excellent Abrasion Resistance
- Low Moisture Absorption
- Good Dimensional Stability
- High Impact Strength

Max Operating Temp. Comparison



Are caustic washdowns attacking your plastic process parts like this?



Sustakon® Blue can extend part life and reduce downtime in caustic washdown processes.

Available Sizes

- Sheet: 1/2" to 2" thick
- 2' x 4'* W x L
 - Rod: 1/2" to 4" diameter** x 10' lengths
- *larger sheet sizes are available on a custom order basis, minimums apply
**some diameters may have minimums



Machined & Injection Molded Parts

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Typical Properties of Sustakon® Blue

PHYSICAL

Property	Test	Unit of Measure	Value
Density	ASTM D792	g/cm ³	1.24
	ASTM D792	lb/in ³	0.045
Water Absorption, Saturation,	ASTM D570	% by wt.	0.5

MECHANICAL

Property	Test	Unit of Measure	Value
Tensile Strength	ASTM D638	psi	8,818
Tensile Modulus	DIN EN ISO 527	psi	246,564
Tensile Elongation at Break	DIN EN ISO 527	%	70
Flexural Strength	ASTM D790	psi	8,818
Flexural Modulus	ASTM D790	psi	227,573
Hardness	DIN ISO 868	Shore D	D78
IZOD Impact-Notched	DIN EN ISO 179	ft-lb/in	5.71

THERMAL

Property	Test	Unit of Measure	Value
Coefficient of Linear Thermal Expansion	DIN 53752	x 10 ⁻⁵ in./in./°F	6.1
Max Operating Temp		°F	248

ELECTRICAL

Property	Test	Unit of Measure	Value
Surface Resistivity	ASTM D257	ohm/square	10 ¹³

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