



PRODUCT CAPABILITIES:

- Rod : 1/8" - 2"
- Sheet : 1/16" - 2"

PRODUCT COLORS:

- Custom Colours

ADVANTAGES:

- High Chemical Resistance To Acidic And Salt Solutions
- Resistant To Oxidation & Hydrolysis
- Able To Withstand Prolonged Exposure To High Temperatures And Repeated Sterilization
- Low Ionic Impurity Levels
- Excellent Radiation Stability

APPLICATIONS INCLUDE:

- Analytical Instrumentation
- Surgical And Medical Devices
- Semiconductor Process Equipment Components
- Chemical Processing Equipment
- Pollution Control Devices

GENERAL PROPERTIES	ASTM or UL Test	UDEL® PSU Typical Values
PHYSICAL		
Specific Gravity (g/cm ³)	D792	1.24
Water Absorption, 24 hrs (%)	D570	<0.3
MECHANICAL		
Tensile Strength (psi)	D638	10,200
Tensile Elongation (%)	D638	75
Flexural Modulus (psi)	D790	390,000
Compressive Strength (psi)	D695	40,000
Hardness, Rockwell R	D785	120
IZOD Notched Impact (J/m)	D256	69
Coefficient of Friction	B1894	0.5
Deformation under Load 23°C, 4000 psi	D621	<0.2
THERMAL		
Coeff. of Thermal Expansion (x 10 ⁻⁵ in./in./°F)	D696	-
Heat Deflection Temp (°F / °C) @ 66 psi	D648	345 / 174
Glass Transition Temp (°F / °C)	D3418	374 / 190
Max Operating Temp (°F / °C)	-	300 / 149
Thermal Conductivity (W/m°C)	C177	0.26
Flammability Rating	UL94	V-2
ELECTRICAL		
Dielectric Strength (V/mil)	D149	2,200
Dielectric Constant at 60Hz	D150	3.15
Dissipation Factor at 60 Hz	D150	0.0011
Volume Resistivity (ohm-cm) at 50% RH	D257	5 x 10 ¹⁶
Arc Resistance (sec)	D495	60

NOTE: The information contained here in is typical values intended for reference only. They should NOT be used as a basis for design specifications or quality control.