

Acetal **POM** Sheet & Rod Technical Sheet

Physical Properties	Test Method	Unit	Value
Specific Gravity	ASTM D792	g/cm ³	1.39
Water Saturation	ASTM D570	%	0.8
Water Equilibrium (50% RH)	ASTM D570	%	0.2
Maximum Permissible Service Temp.	UL 746B	°F	195
Lower Permissible Service Temp.	UL 746B	°F	-40
Mechanical Properties			
Tensile Strength at Yield	ASTM D638	psi	9135
Elongation at Yield	ASTM D638	%	15
Tensile Strength at Break	ASTM D638	psi	-
Elongation at Break	ASTM D638	%	30
Impact Strength	ASTM D256	ft-lb/in	-
Notch Impact Strength	ASTM D256	ft-lb/in	1.5
Ball Indentation / Rockwell HARDNESS	ASTM D785	R-Scale	120
Shore D Hardness	ASTM D2240	-	85
Flexural Strength	ASTM D790	psi	10,800
Modulus of Elasticity	ASTM D790	psi	380,000
Thermal Properties			
Vicat-softening Point:			
- VST/B/50	ASTM D1525	°F	-
- VST/A/50	ASTM D1525	°F	-
Heat Deflection Temperature:			
- HDT/B (66 psi)	ASTM D648	°F	308
- HDT/A (264 psi)	ASTM D648	°F	205
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F*10 ⁻⁵	3.3
Thermal Conductivity at 68°C	ASTM C177	BTU/hr-ft*°F	-
Glass Transition Temperature	ASTM D3418	°F	-85
Melting Temperature	ASTM D3418	°F	330
Electrical Properties			
Volume Resistivity	ASTM D257	Ω*cm	10 ¹³
Surface Resistivity	-	Ω/SQ	10 ¹³
Dielectric Constant at 1MHz	ASTM D150	-	3.8
Dielectric Loss Factor at 1MHz	-	-	0.005
Dielectric Strength	ASTM D149	V/mil	800
Tracking Resistance	IEC 60112	Grade	600
Additional Data			
Bondability	-	-	no
Flammability	UL 94	-	HB

