



Typical Properties of

Acetal - Homopolymer

Unfilled Polyoxymethylene (POM-H)

Process: Extruded

Property	Test Method	Unit	Value
Specific Gravity	D792	--	1.41
Tensile Strength	D638	psi	11,000
Tensile Modulus	D638	psi	450,000
Elongation	D638	%	30
Flexural Strength	D790	psi	13,000
Flexural Modulus	D790	psi	450,000
Compressive Strength	D695	psi	16,000
Compressive Modulus	D695	psi	450,000
Hardness, Rockwell	D785	--	M89 (R122)
Hardness Durometer	--	--	D86
Izod Impact (notched)	D256	ft. lb of notch	1
Coeff. of Friction (Dynamic)	--	dry v.s steel	0.25
Coeff. of Linear Therm. Expan.	E831/ D696	in./in./°F	4.7×10^{-5}
Continuous Use Temperature	--	°F	180
Heat Deflection Temperature	D648	°F	250
Glass Transition Temperature	D3418	°F	150
Melting Point	D3418	°F	345
Thermal Conductivity	E1530-11	BTU in/hr ft ² °F	2.5
Dielectric Strength	D149	Volts/mil	450
Surface Resistivity	EOS/ESD 511.11	ohm/square	$>10^{13}$
Flammability	UL94	--	HB
Water Absorption, 24 hrs.	D570	% by weight	0.2
Water Absorption, Saturation	D570	% by weight	0.9
Limiting PV (4:1 Safety Factor)	--	--	2,700
K-Factor	--	--	200
FDA Compliance	--	--	Yes

Note: The data provided is for reference purposes only. Additional testing may be required for design specifications or quality control.
All values at 73 F unless otherwise stated.