

Salco UHMWPE Chemical & Mechanical Comparison Chart



Chemical Compatibility

HCL (100%) Compatibility	A	B	D	A	A	A	D	D	A
Bleach (Sodium Hypochlorite) (100%) Compatibility	A	B	B	C	A	A	D	D	B
Sulfuric Acid (50%) Compatibility	A	A	A	A	A	A	D	D	A
Sulfuric Acid (100%) Compatibility	A	C	D	C	B	A	D	D	A

Corrosion resistance data for all materials from published literature.

Key: A - Excellent B - Good C - Fair D - Severe Effect

Mechanical Properties

Elongation @ Break	+500%	146%	25%	27%	+500%	20%	50%	20%	70%
Tensile Strength (Kilopound per Square Inch)	5.8	4.6	7.5	8.2	1.6-6.2	58-80	42.1	58-80	105.4
Shear Modulus (Kilopound per Square Inch)	26.1	110	1.74-16.7	N/A	108.8	11,500	11,000	11,500	11,400
Break Property (IZOD Test measured at Jules per Meters Squared)	999	50	50	50	20	N/A	N/A	N/A	N/A
Maintenance-Free Exterior	YES	YES	NO	NO	YES	NO	YES	NO	YES
Temperature Rating (°F)	-22° to 180°	32° to 176°	140° Max	200° Max	-31° to 185°	-20° to 500°	1700° Max	-20° to 650°	800° Max
Resistant to Abrasion	YES	NO	NO	NO	NO	NO	YES	YES	YES

This is Only A Reference Guide. To learn more, contact Salco at www.salcoproducts.com

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Product Line of Salco Products