

Shoreline Plastics, LLC | ENGINEERING DATA

VINYL SHEET PILING

MECHANICAL PROPERTIES	SLP-200	SLP-350	SLP-400	SLP-460L	SLP-560L	SLP-700	SLP-730	SLP-740	SLP-800
MASS - <i>LBS/SQFT</i>	3.07	3.25	4.00	3.38	3.91	3.67	4.45	4.90	5.68
COVERAGE PER SHEET - <i>IN</i>	12.00	12.00	12.00	24.00	24.00	18.00	18.00	18.00	18.00
DEPTH OF CROSS SECTION - <i>IN</i>	4.50	6.50	6.50	9.00	9.00	8.25	8.25	8.25	10.00
WALL THICKNESS (t) - <i>IN</i>	0.23	0.24	0.31	0.25	0.29	0.32	0.35	0.40	0.45
SECTION MODULUS (S) - <i>INCU/FT</i>	6.29	11.02	13.45	15.83	18.95	19.72	20.50	22.30	29.14
ALLOWABLE MOMENT (M) - <i>LBS FT/FT</i>	3,000	5,258	6,418	7,553	9,044	5,785	6,308	6,878	13,843
MOMENT OF INERTIA (I) - <i>IN 4/FT</i>	28.40	71.62	89.57	137.72	158.78	151.56	168.80	184.00	459.15

CELL CLASSIFICATION: 1-42443-33	ASTM D4216
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MATERIAL PROPERTIES	VALUE	ASTM TEST
SPECIFIC GRAVITY <i>GMS/CC</i>	1.44	D-792
IZOD IMPACT <i>FTLBS/IN.NOTCH</i>	1.5	D-638
<i>J/M of Notch</i>	80.1	
TENSILE YIELD STRENGTH <i>PSI</i>	6,300	D-638
<i>Mpa</i>	43.47	
TENSILE MODULUS (E) <i>PSI</i>	400,000	D-638
<i>Mpa</i>	2758	
FLEXURAL YIELD STRENGTH <i>PSI</i>	12000	D-790
<i>Mpa</i>	82.8	
FLEXURAL MODULUS <i>PSI</i>	380,000	D-790
<i>Gpa</i>	2.6	
DTUL <i>@264 psi, Degrees.C.</i>	70	D-648
<i>@1.821 N/mm2.Degrees.F.</i>	158	
COEFFICIENT LIN EXPANSION <i>IN/IN/ DEG F</i>	<5.5 x10-5	D-696
<i>CM/CM/ DEG C</i>	<10x10-5	