

Plastruct Polyzone Polyliner
Dump Truck Liner

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PHYSICAL PROPERTIES

SilverSlide is manufactured using a high molecular weight, high density polyethylene modified copolymer. This resin has superior stress crack resistance combined with high impact strength and rigidity. It is designed for use in demanding forming applications and for extrusion into exceptionally tough sheet. A common application for this resin is sheets for sliding bulk products particularly abrasion-resistant liners. Its excellent impact resistance at sub-zero temperatures enhances its use as a heavy duty liner material.

Property	Method	Unit	Nominal Value*
Density	ASTM D-792	g/cm ³	0.95
Tensile strength at yield	ASTM D-638	psi	4100
Tensile modulus	ASTM D-638	psi	n/a
Elongation at yield	ASTM D-638	%	18
Elongation at break	ASTM D-638	%	900
Tensile impact	DIN 53448	ft-lbs/in ²	170
Flexural modulus	ASTM D-790	psi	175,000
Flexural strength	ASTM D-790	psi	n/a
Izod impact	ASTM D-4020	ft-lbs/in ²	8
IZOD impact notched	ASTM D-2240	ft-lbs/in ²	n/a
Compressive modulus	ASTM D-695	psi	n/a
Compressive deformation	ASTM D-621	% at 1000 psi	n/a
Environmental stress crack resistance	ASTM D-1693	hrs.	800
Hardness	ASTM D-2240	Shore D	68
Static friction	ASTM D-1894	Unitless	0.25
Dynamic friction	ASTM D-1894	Unitless	0.22
Impact brittleness temperature	ASTM D-746	°F	-105
Melting point	ASTM D-3417	°F	n/a
Coefficient of linear thermal expansion	ASTM D-696	in/in/°F	6.6 x 10 ⁻⁵
Heat deflection temperature, 66 psi	ASTM D-648	°F	160
Vicat softening temperature	ASTM D-1525	°F	254
Max. operating temp.		°F	164
Water absorption 24hrs.	ASTM D-570	%	0.0001

*All values are determined on specimens prepared according to ASTM 1248-84 "Standard Specifications for Polyethylene Plastic Molding and Extrusion Materials". Nominal values should not be interpreted as specifications.

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