

Technical Data Sheet

Polystone[®] Aggregate dump bed liner

PE-UHMW / PE 1000

Typical characteristics

- Good sliding properties
- High abrasion resistance
- High impact resistance

Typical industries

- Heavy-Duty Truck Products

	Test method	Unit	Guideline value
General properties			
Density	ASTM D792	g / cm ³	0.93-0.94
Water Absorption	ASTM D570	%	0.01
Mechanical properties			
Wear resistance	Sand-slurry		90
Hardness	ASTM D2240	Shore D	63-69
Tensile Strength at yield 73°F	ASTM D638	psi	3000
Tensile Modulus	ASTM D638	psi	100000
Elongation at Break	ASTM D638	%	>290
Compressive Strength	ASTM D695	psi	2800
Izod Impact, Notched	ASTM D256	ft-lb/in	No break
Coefficient of Friction, Dynamic			0.10-0.22
Coefficient of Friction, Static			0.15-0.25
Izod Impact Strength	ASTM D4020	kJ / m ²	96
Thermal properties			
CTE, linear	ASTM D696	in/in/°F	1.1x10 ⁻⁴
Melting Point		°F	266-275
Maximum Service Temperature, Air		°F	180
Deflection Temperature at 1.8Mpa (264psi)	ASTM D648	°F	116
Flammability, UL94		1/8 inch	HB
Electrical properties			
Dielectric constant	ASTM D150	1MHz	2.3
Dielectric strength	ASTM D149	kV / mm	45

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	Test method	Unit	Guideline value
Surface resistivity	ASTM D257	Ω/cm	$>10^{12}$
Compliance properties			
FDA			No
NSF			No
USDA			No



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