

# HDPE SR



## Typical Properties

Property	Test Method	Units	Values
<b>PHYSICAL</b>			
Density	ASTM D 1505	g/cc	0.955
<b>MECHANICAL</b>			
Tensile strength @ yield	ASTM D 638	psi	>4,100
Tensile modulus	ASTM D 638	psi	255,000
Elongation @ break	ASTM D 638	%	>600
Elongation @ yield	ASTM D 638	%	9.8
Flexural modulus	ASTM D 790	psi	185,000
Flexural stress @ 5% strain	ASTM D 790	psi	3,810
Compressive properties 10% strain	ASTM D 695	psi	4,950
Durometer	ASTM D 2240	Shore D	68
Tensile impact	ASTM D 1822	ft-lbs/in <sup>2</sup>	115
Izod impact	ASTM D 256	ft-lbs/in <sup>2</sup>	1.1
Screw and nail withdrawal	ASTM D 1761	lbs	657 & 63
<b>THERMAL</b>			
Vicat softening temperature	ASTM D 1525	°C (°F)	123°C (253°F)
Brittleness temperature	ASTM D 746	°C (°F)	< -76°C (-105°F)
Heat deflection temperature @ 66 psi	ASTM D 648	°C (°F)	75°C (167°F)
Flammability	UL94	Rating	HB

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use are beyond our control. We recommend that the prospective user determines the suitability of our materials and suggestions before adopting them on a commercial scale.