



Typical Physical Properties:

HITEC® HDPE High Density Polyethylene

Property	Nominal Value	Units	ASTM Test Method
Melt Index	0.80	g/10 min	D 1238
Density	0.960 +	g/cm ³	D 1505
Tensile Strength @ Yield	4,600	psi	D 638
Elongation @ Break	>600	%	D 638
Coefficient of Linear Thermal Expansion	6 x 10 ⁻⁵	In./in./°F	D696
Flexural Modulus	225,000	psi	D 790
Tensile Impact	120	ft-lb/in	D 1822
Low Temperature Brittleness F ₅₀	<-76	°C	D 746
Heat Deflection Temperature @ 66 psi	82	°C	D 648
Maximum Service Temperature, Air	180 F		Long Term
Vicat Softening Point	129	°C	D 1525
Hardness, Shore D	69		D 2240
Absorption	Max 0.01%		D5709(2)
Flammability Rating	UL94 HB		
Compliances	FDA, USDA, NSF		

Scranton Products:

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The "Typical" properties of our plastic sheet cannot be automatically used when engineering finished components; and the fabricator or end user is responsible for insuring the suitability of our products for their specific application or end use!