Ultra White™/PVC Sheet Typical Properties

Property	Units	Value[1]	ASTM Method
Physical			
Density	g/cm3	1.42	D 792
Water Absorption	%	0.06	D 570
Rockwell Hardness	R Scale	115	D 785
Shore Durometer	D	89	D 2240
Mechanical			
Tensile Modulus	psi	411,000	D 638
Yield Strength	psi	7,500	D 638
Flexural Modulus	psi	481,000	D 790
Yield Strength	psi	12,800	D 790
Izod Impact	ft-lb/in	1.0	D 256
Thermal			
Vicat Softening Point	°C/°F	83/181	D 1525
Heat Deflection Temperature	°C/°F	82/179	D 648
Heat Deflection Temperature	°C/°F	80/176	D 648
Linear Coefficient of Expansion	in/in/°C	5.8 × 10-5	D 696
Linear Coefficient of Expansion	in/in/°F	3.2 × 10-5	D 696
Flammability Rating			
Flammability	—	Self-Extinguishing	D 635
Flammability	—	0	UL 94V
Flame Spread	—	15	E 84
Chemical			
Chemical Resistance	—	Class B	D 1784
Electrical			
Electrical Volume Resistivity	Ohm/cm	5.4 × 1015	D 257
Dielectric Constant	60 Hz	3.19	D 150
Dissipation Factor	60 Hz	0.0096	D 150
Loss Index	60 Hz	0.030	D 150
Dielectric Strength	Volts/mil	544	D 149

[1] Physical properties of plastic sheeting are represented as "Typical". Information contained herein is considered accurate to the best of our knowledge. It is offered for your consideration and investigation, and is not to be construed as a representation or warranty expressed or implied. Our warranties are limited to those expressly stated in formal contracts or in conditions of sale on our invoices and order acceptances. Conditions and methods of use may vary and are beyond the control of Vycom Corp., therefore, Vycom Corp. disclaims any liability incurred as a result of the use of this product in accordance with the data contained in our physical property charts. No information herein shall be construed as an offer of indemnity for infringement or as a recommendation to use the products in such a manner as to infringe any patent, domestic or foreign.

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!

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Hitec® High-Density Polyethylene Typical Properties

Property	Units	Value	ASTM Method
ASTM Type, Class, Category	—	IV,A,4	D 1248
Melt Index	g/10 min.	0.70	D 1238
Density	g/cm^3	0.960	D 1505
Hardness	Shore D	68	D 2240
Mechanical			
Tensile Strength @ Break	psi	4,500	D 638
Elongation @ Break	%	>600	D 638
Flexural Modulus @ 2% secant method	psi	120,000	D 790
Tensile Impact, (2)	ft-lb/in	100	D 1822
Environmental Stress Crack Resistance, F50	< 5000 hrs. < 5000 hrs.	— —	D 1693 D 2561
Thermal			
Low Temperature Brittleness, F50	°C/°F	<-7.6/18	D 746
Heat Deflection Temperature @ 66 PSI	°C/°F	78/172	D 648
Vicat Softening Point	°C/°F	125/257	D 1525

Hitec meets the standard established by Food and Drug Regulation 21 CFR 177.52 for all food contact, USDA, and the Department of Canadian Agriculture.

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