

Section 2

Technical Data



P.O. Box 567 * 7451 Hwy 62 East * Mount Vernon, Indiana, 47620 USA

Phone: 812.985.3628 * Fax: 812.985.2925

Material Specifications & Characteristics

ASTM Test Method	D 792	D 695	D 732	D 696	D 638	D 790	D 256
Westech® Vinyl Products	Specific Gravity	Compressive Yield Strength (lbf)	Peak Shear Strength (psi)	Coeff. of Thermal Expansion α (in./in./F° x 10 ⁻⁵)	Modulus of Elasticity (psi)	Flexural Modulus (psi)	Impact Resistance I _s (ft-lb/in)
	1.44	7,085	6,171	6.30	390,333	347,851	2.31

Definitions

Specific Gravity is the density of a substance relative to the density of water.

Compressive Yield Strength is the compressive force per unit area that it can withstand.

Peak Shear Strength is the shear strength of a material determined by the maximum shear stress necessary to penetrate the surface of a flat specimen of the material completely.

Coefficient of Thermal Expansion is the change in length per unit length of material per one degree.

Modulus of Elasticity is the measure of the elastic force of any substance, expressed by the ratio of a stress on a given unit of the substance to the accompanying distortion, or strain.

Flexural Modulus is the ratio of stress to strain within the elastic limit (when measured in the flexural mode) and is similar to the tensile modulus. This property is used to indicate the bending stiffness of a material.

Impact Resistance allows designers to compare the relative impact resistance under laboratory conditions and, consequently, is often used for material selection or quality control.

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Material Safety Data Sheet

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Date Prepared: October 1, 1999

Revised: April, 2000

SECTION I.

MATERIAL DESCRIPTION

Common Name:	Rigid Poly Vinyl Chloride (PVC) Exterior Profiles Used for Fencing, Decking, and Railing.
Manufacturer:	Westech Building Products, Inc. Mailing: P.O. Box 567 Shipping: 7451 Hwy 62 East Mount Vernon, Indiana 47620
Phone:	(812) 985-3628 Fax: (812)-985-2925

Chemical Name & Formula: PVC Homopolymer, SIC: 3084

CAS NO.: PVC Resin (9002-86-2) Titanium Dioxide (13463-67-7); Calcium carbonate (1317-65-3)

SECTION II.

HAZARDOUS INGREDIENTS AND OCCUPATIONAL EXPOSURE LIMITS

	% Max.	TWA in mg/m ³ unless noted	
		ACGIH TLV	OSHA PEL
Polyvinyl Chloride resin	86	Dust 10	15, 5 (respirable)
Titanium Dioxide	10	10	10, 5 (respirable)
Proprietary ingredients	9	10	10, 5 (respirable)

SECTION III.

PHYSICAL DATA

Physical Form: _____ Solid
 Boiling Temperature: _____ Not Applicable
 Heat deflection temperature: _____ 168° F (76° C)
 Vapor Pressure: _____ Not Applicable
 Evaporation Rate: _____ Not Applicable
 Specific Gravity: _____ 1.42
 Density: _____ Not determined
 Water Solubility: _____ Insoluble
 PH: _____ Not Applicable
 Color: _____ Various
 Odor: _____ Plastic, resin odor



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SECTION IV.

FIRE AND EXPLOSION DATA

Flashpoint: _____ Not Applicable
 Self-Ignition Temperature: _____ 849° F (470°C)
 Flammability Limits in Air: _____ Not Applicable
 Extinguishing Media: _____ Use water spray, dry chemical or foam.

Fire and Explosion Hazard: PVC homopolymers are self-extinguishing plastic materials. They will burn in the presence of other materials that support combustion and will generate hydrogen chloride, benzene, water, carbon monoxide, and carbon dioxide.

Firefighters should wear NIOSH approved, self-contained breathing apparatus and protective clothing when appropriate.

SECTION V.

REACTIVITY DATA

Stable under normal conditions of use, storage and transportation.

Hazardous polymerization will not occur.

Hazardous decomposition products include hydrogen chloride at elevated temperatures (> 250-300 F), carbon monoxide, carbon dioxide, aromatic and aliphatic hydrocarbons.

SECTION VI.

HEALTH HAZARD INFORMATION (SEE SECTION II FOR EXPOSURE LIMITS)

Dust resulting from power or hand sawing this material is considered to be a low health risk by inhalation. Limits for total and respirable dust in Section II are applicable.

Dust may be irritating to the skin, eyes, nose, and upper respiratory tract.

If product is melted, this material may emit fumes and vapors that are irritating to the eyes, nose, skin and upper respiratory tract.

First Aid:

Skin and eyes: If irritation develops, consult a physician
 Inhalation: If irritation or pulmonary symptoms develop, remove to fresh air and consult a physician.

SECTION VII.

SPILL, LEAK AND DISPOSAL PROCEDURES

Collect scrap for reprocessing, or for landfill in compliance with local regulations.

