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Section 2 Technical Data

Vestech*

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	I Strength		Coeff. of Thermal Expansion α (in./in./F° $\times 10^{-5}$)	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.

<u>Peak Shear Strength</u> 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.

<u>Coefficient of Thermal Expansion</u> is the change in length per unit length of material per one degree.

<u>Modulus of Elasticity</u> 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.

<u>Flexural Modulus</u> 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.

<u>Impact Resistance</u> 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

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

	<u>% Max.</u>		TWA in mg/m³ unless noted		
		AC	GIH TLV	<u>OSHA PEL</u>	
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:	—1.4 2
Density:	-Not determined
Water Solubility:	—Insoluble
PH:	—Not Applicable
Color:	—Various
Odor:-	—Plastic, resin odor



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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.



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SECTION VIII.

SPECIAL PROTECTION AND PRECAUTIONS

Use with adequate ventilation to meet exposure limits listed under Section II. Where the exposure limits are or may be exceeded, use NIOSH approved respiratory protection. Select appropriate respirator (e.g., high efficiency dust mask, acid gas respirator) based on the actual or potential airborne contaminants and their concentrations present.

When cutting, wear safety glasses or goggles to prevent foreign particles from being projected into eye.

SECTION IX.

REGULATORY INFORMATION

Chemical substance components have been reported to the EPA Office of Toxic Substances in accordance with the requirements of the Toxic Substances Control Act (Title 40 CFR Part 710).

EPA SARA Title III hazard class: NONE

OSHA Hazard Communication Standard Hazard Class: NONE

D.O.T. Shipping Name, Hazard Class, I.D. No. (if applicable) Not Regulated.

SECTION X.

ADDITIONAL INFORMATION

H.M.I.S. Ratings:	Health: 1 Flammability: 1 Reactivity: 0
N.F.P.A. Ratings:	Health: 1 Flammability: 1 Reactivity: 0 Special hazard Warning: None

Substance(s) listed by California under the "Safe drinking Water and Toxic Enforcement Act of 1986" (Proposition 65): NONE

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However, no warranty, expressed or implied, can be made.