

ENSINGER-VEKTON

ASK. THINK. SUCCEED.



SAN DIEGO PLASTICS, INC.

2220 MCKINLEY AVENUE, NATIONAL CITY, CA 91950
619/477-4855 FAX 477-4874
www.sdplastics.com

INDUSTRY PROFILE

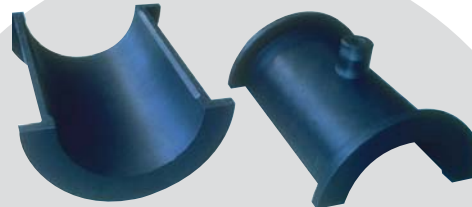
TECAST VEKTON™

(Forest Products Industries)

TECAST VEKTON high performance cast nylon parts are used in virtually all forest product handling equipment from buckets and booms to conveyors and buggys. Ideal for use in original equipment or in maintenance situations, TECAST VEKTON nylon often replaces steel, cast iron, bronze, aluminum, wood, rubber, and laminated phenolics at lower cost with improved performance.

TECAST VEKTON offers several characteristics that allow bearings, bushings, wear plates, gears, rollers, wheels, pulleys, and other components to perform well in the wet and dirty environment found in forest products applications. Its excellent lubricating ability, and high impact, shock, chemical, abrasion, and corrosion resistance ensure exceptional wear and long part life.

In addition, TECAST VEKTON general characteristics include a low coefficient of friction, outstanding fatigue resistance, and noise damping for OSHA requirements.



6PAM Conveyor Bearing

- **Low Cost–**

TECAST VEKTON is less costly than the materials it replaces.

- **Reduced Maintenance Costs and Downtime–**

TECAST VEKTON typically lasts 2 to 3 times longer than conventional materials.

- **Noise Reduction–**

TECAST VEKTON absorbs vibration and provides quieter operation.

- **Low Cost–**

TECAST VEKTON is 1/8 the weight of bronze and 1/7 the weight of steel.

Versatile, TECAST VEKTON can be found in a variety of forest products applications including: bucket pivot bearings; table conveyor bearings; table conveyor gears; boom pivot bearings; cable sheaves; conveyor chain wear plates; kicker arm bearings; hourglass roll bearings; hold down arm and knee bearings; lumber sorter fingers; hog fuel sweep arm wheels; hog fuel conveyor wear plates; veneer skiving bar feed nuts; chipper dog wear ways; kiln buggy bearings; lumber buggy bearings; wood treatment tram bearings...and more.

TYPICAL PROPERTY VALUES

PROPERTIES	ASTM Test Method	Units	Tecast Vekton® 6PA	Tecast Vekton® 6XAU	Tecast Vekton® 6PAM/6PAG	Tecast Vekton® 6PAL
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PHYSICAL	Density	D792	lbs/in ³	.0416-.0419	.0416-.0419	.0416-.0423	.0412-.0416
	Specific Gravity	D792	g/cc	1.15 - 1.16	1.15 - 1.16	1.15 - 1.17	1.14 - 1.15
	Water Absorption, @ 24 hours, 73°F	D570	%	1.2	1.2	1.2	.75
	@ Saturation, 73°F	D570	%	—	—	—	—

MECHANICAL	Tensile Strength @ Yield, 73°F	D638	psi	10,000	11,000	11,000	8,800
	Tensile Modulus	D639	psi	350,000	350,000	350,000	350,000
	Elongation @ Break, 73°F	D638	%	25	20	20	25
	Flexural Strength, 73°F	D790	psi	12,500	12,500	12,500	12,500
	Flexural Modulus, 73°F	D790	psi	350,000	350,000	350,000	325,000
	Compressive Strength	D695	psi	—	—	—	—
	Izod Impact Strength, 73°F	D256	ft-lbs/in	.6	.7	.6	1.2
	Rockwell Hardness, 73°F	D785	R Scale	115	115	115	100
	Shore Hardness	—	D Scale	—	—	—	—
	Wear Factor Against Steel, 40 psi, 50 fpm	D3702	$\frac{\text{in}^3 \times 1}{\text{hr} \times \text{PV}}$	200 x 10 ⁻¹⁰	—	—	—
	Static Coefficient of Friction	D3702	—	—	—	—	—
	Dynamic Coefficient of Friction, 40 psi, 50 fpm	D3702	—	.26	—	—	—

ELECTRICAL	Heat Deflection Temperature @ 66 psi	D648	°F	370	370	370	—
	@ 264 psi	D648	°F	200	200	200	—
	Coefficient of Linear Thermal Expansion	D696	in/in/°F	4.0 x 10 ⁻⁵	4.0 x 10 ⁻⁵	4.0 x 10 ⁻⁵	4.0 x 10 ⁻⁵
	Maximum Servicing Temperature, Intermittent	—	°F	300	350	300	330
	Long Term	UL746B	°F	200	260	200	200
	Specific Heat	—	BTU/lb-°F	.40	—	—	—
	Thermal Conductivity	—	—	1.67	—	—	—
	Vicat Softening Point	—	°F	—	—	—	—
	Melting Point	D2133	°F	428	428	428	428
	Flammability	UL94	—	HB	—	—	—

This information is only to assist and advise you on current technical knowledge and is given without obligation or liability. All trade and patent rights should be observed. All rights reserved.

Primary Specification (Typical)

6PA: L-P-410a
6PAM: L-P-410a Wear Resistant

Shapes Specification (Typical)

6PA: ASTM-D-5989 S-PA0211
6PAL: ASTM-D-5989 S-PA0251
6PAM: ASTM-D-5989 S-PA0221



Custom parts are available in sizes up to 90" in diameter and weights up to 1,200 pounds.

DISTRIBUTED BY

Division of Ensinger, Inc.

1 Main Street
 Grenloch, New Jersey 08032
Telephone: 800.243.3221
 856.227.0500
FAX: 856.232.1754
 E-mail: sales@ensinger-ind.com

HEADQUARTERS
 365 Meadowlands Boulevard
 Washington, Pennsylvania 15301
Telephone: 724.746.6050
FAX: 724.746.9209
 Web site: www.shopforplastics.com