

Tecast Vekton® 6PALM (Premium Bearing Grade of Cast Nylon)

Vekton 6PALM is a premium bearing grade of cast type 6 nylon containing both solid and liquid lubricants. These lubricants are dispersed throughout the nylon material to provide consistent wear rates and coefficients of friction.

Vekton 6PALM contains MOS2 and oil to "bridge the gap" between oil-filled and MOS2 cast nylons. It offers the better wear properties of oil-filled nylons while maintaining more of the mechanical characteristics of MOS2-filled cast nylons.

Vekton 6PALM can be identified by its dark blue color and has found application in heavy equipment applications, particularly in construction and material handling equipment.

Properties	ASTM Test Method	Units	Tecast Vekton® 6PALM
Mechanical and Wear			
"k" Factor (wear rate)	D3702	in ³ ft/lb/hr	4.9 x 10 ⁻⁹
Limiting PV		psi-ft/min	16,000-17,000
Tensile Strength, Ultimate, 73 F	D638	psi	8500
Elongation, Ultimate, 73 F	D638	%	40
Flexural Strength, 73 F	D790	psi	12800
Flexural Modulus, 73 F	D790	psi	400000
Izod Impact Strength, Notched, 73 F	D256	ft-lbs/min	1.75
Rockwell Hardness	D785	"R" scale	110
Coefficient of Friction, Static			0.16
Coefficient of Friction, Dynamic			0.14
Thermal			
Coefficient fo Linear Thermal Expansion	D696		(40-50) x 10 ⁻⁶
Maximum Temperature for Long Term, Continuous			200
Maximum Temperature for Long Term, Intermittent			330

NOTE: The information contained herein are typical values intended for reference and comparison purposes only. They should NOT be used as a basis for design specifications or quality control. Contact us for manufacturers' complete material property datasheets. All values at 73°F (23°C) unless otherwise noted.