



chemical solutions to concrete problems

1444 S. 20th St., Omaha, NE 68108

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Nox-Strut Technical Values

	<i>Examination Method</i>	<i>Unit</i>	<i>Values</i>
Mechanical			
Density (lbs/cubic ft)	D792		37
Flexural strength (psi)	D790		3,952
Flexural modules (psi)	D790		192,700
Tensile Strength (psi)	D638		1,739
Tensile modules (psi)	D638		113,400
Compression Strength (psi)	D695		2,018
Compression modules (psi)	D695		90,200
Notched izod impact strength (ft-lb/inch)	D256		0.27
Puncture impact energy (ft-lbs)	D3763		7.34
Thermal			
	<i>Examination Method</i>	<i>Unit</i>	<i>Values</i>
Vicat softening temp.	DIN 53 460	°C	75
Temp. of deflection under Load acc. To ISO/T 75 (HDT)	DIN 53 461	°C	56
Coefficient of linear thermal Expansion (-30°C to + 50°C)	DIN 53 752	mm/m °C	0.08
Thermal Conductivity (0°C to +60°C)	DIN 52 616	W/mK	0.10
Other			
	ASTM		
Thermal Resistance R, 0.5" thick	C518		1,106
Thermal Resistance R per inch, 0.5" thick	C518		2.37
Thermal Resistance R – 1.0"	C518		1.976
Thermal Resistance R per inch – 1.0"	C518		2.18
Moisture Absorption			
0.5" cube, 24hr submission	D570	%	18.2 % (2.2)
1ft long plank, 245 hr submersion	D570	%	0.82% (0.09)
Water Absorption (%)	D570		<1
Tensile Modules (Type 1, 0.2"/min.)	D638	113.4 ksi (8.6)	
Tensile Strength	D638	1,739 psi (59.6)	
Elongation at Break	D638	23.3 % (3.8)	
Heat deflection temp. at 24 psi (°F)	D648		143
Oil canning at 140°F	D3979		None
Flame spread index	E84		30
Smoke Developed Index	E84-03		800
Burn Rate			None when flame removed

*These are standard values which apply to an average density. Small variations on the thickness of the pieces are not excluded