

TIVAR® 88 Premium Lining Material


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PHYSICAL PROPERTIES

Recognized worldwide as the premium lining material for bulk material handling, TIVAR® 88 is noted for its performance in promoting bulk solids flow of cohesive or non-free flowing materials due to its low surface friction. TIVAR® 88 liners are the perfect solution when you need to reduce or eliminate arching, ratholing and erratic material flow challenges in bins, bunkers, hoppers and chutes, railcars, etc.

Property	Method	Unit	Nominal Value*
Density	ASTM D-792	lbs/ft ³	0.93
Tensile strength at yield	ASTM D-638	psi	3100
Tensile modulus	ASTM D-638	psi	155,990
Elongation at yield	ASTM D-638	%	12
Elongation at break	ASTM D-638	%	330
Tensile impact	DIN 53448	ft-lbs/in ²	n/a
Flexural modulus	ASTM D-790	psi	107,900
Flexural strength	ASTM D-790	psi	n/a
Izod impact	ASTM D-4020	ft-lbs/in ²	no break
IZOD impact notched	ASTM D-2240	ft-lbs/in ²	n/a
Compressive modulus	ASTM D-695	psi	69,650
Compressive deformation	ASTM D-621	% at 1000 psi	6.0 - 8.0
Hardness	ASTM D-2240	Shore D	69
Static friction	ASTM D-1894	Unitless	0.17
Dynamic friction	ASTM D-1894	Unitless	0.14
Melting point	ASTM D-3417	°F	280
Coefficient of linear thermal expansion	ASTM D-696	°F-1	0.00011
Max. operating temp.		°F	280
Volume Resistivity	ASTM D-257	Ohm-cm	>10 ¹⁵
Surface Resistivity	ASTM D-257	Ohm	>10 ¹⁵
Water absorption 24hrs.	ASTM D-570	%	nil

*All values are determined on specimens prepared according to ASTM 1248-84 "Standard Specifications for Polyethylene Plastic Molding and Extrusion Materials". Nominal values should not be interpreted as specifications.

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