

SANI-ARMOUR™ Premium Polyethylene Sheet

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PHYSICAL PROPERTIES

Sani-armour™ is formulated from a premium grade, modified resin to provide superior impact strength and increased molecular bonding. Unlike typical high density polyethylenes used for sheet applications, Sani-armour™ exhibits exceptional properties at sub-zero temperatures while maintaining a high performance against chemicals and environmental degradation. Sani-armour™ meets all American and Canadian government requirements for direct food contact.

Property	Method	Unit	Nominal Value*
Density	ASTM D-792	g/cm ³	0.949
Tensile strength at yield	ASTM D-638	psi	4610
Tensile strength at break	ASTM D-638	psi	9990
Elongation at yield	ASTM D-638	%	18
Elongation at break	ASTM D-638	%	900
Tensile impact	DIN 53448	ft-lbs/in ²	75
Flexural modulus	ASTM D-790	psi	170,000
Flexural strength	ASTM D-790	psi	n/a
Izod impact	ASTM D-4020	ft-lbs/in ²	8
IZOD impact notched	ASTM D-2240	ft-lbs/in ²	3
Compressive modulus	ASTM D-695	psi	4500
Compressive deformation	ASTM D-621	% at 1000 psi	n/a
Environmental stress crack resistance	ASTM D-1693	hrs.	800
Hardness	ASTM D-2240	Shore D	66
Impact brittleness temperature	ASTM D-746	°F	-105
Melting point	ASTM D-3417	°F	n/a
Coefficient of linear thermal expansion	ASTM D-696	in/in/°F	6.5 x 10 ⁻⁵
Heat deflection temperature, 66 psi	ASTM D-648	°F	160
Vicat softening temperature	ASTM D-1525	°F	262
Max. operating temp.		°F	165
Volume Resistivity	ASTM D-257	Ohm-cm	>10 ¹⁰
Surface Resistivity	ASTM D-257	Ohm	>10 ¹⁰
Water absorption 24hrs.	ASTM D-570	%	<0.0001

*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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