

Sani-Armor ICE

iPoly's Sani-Armor ICE is a modified high density polyethylene (HDPE) resin specifically engineered to mimic a natural ice. Inherent self-lubricating properties of this engineered resin provide a low-co-efficient of friction that allows ice skating blades to glide effortlessly without any surface moisture or additional lubrication required. Sani-Armor ICE resin is also formulated to be chemical and UV resistant, while maintaining a good level of impact strength.

TECHNICAL INFORMATION

Property	Method	Unit	Nominal Value*
Density	ASTM D-792	g/cm3	0.949
Tensile strength at yield	ASTM D-638	psi	3775
Tensile modulus	ASTM D-638	psi	n/a
Elongation at yield	ASTM D-638	%	15
Elongation at break	ASTM D-638	%	650
Tensile impact	DIN 53448	ft-lbs/in2	530
Flexural modulus	ASTM D-790	psi	155,000
Flexural strength	ASTM D-790	psi	3,400
Izod impact	ASTM D-4020	ft-lbs/in2	18
IZOD impact notched	ASTM D-2240	ft-lbs/in2	3.55
Compressive modulus	ASTM D-695	psi	n/a
Compressive deformation	ASTM D-621	% at 1000 psi	n/a
Melting point	ASTM D-3417	°F	290
Hardness	ASTM D-2240	Shore D	64
Coefficient of linear thermal expansion	ASTM D-696	in/in/°F	6.7 x 10 ⁻⁵
Heat deflection temperature, 66 psi	ASTM D-648	°F	166
Max. operating temp.		°F	175
Volume Resistivity	ASTM D-257	Ohm-cm	n/a
Surface Resistivity	ASTM D-257	Ohm	n/a
Water absorption 24hrs.	ASTM D-570	%	0.0001

Disclaimer: All technical information and recommendations contained herein though believed to be true in nature are meant as general guidelines only. As such iPoly makes no express or implied warranties regarding end uses of these materials. Buyers are responsible for determining the specific material requirements for a given application. Any damages, direct or consequential, resulting from the use of these materials are strictly the responsibility of the buyer. iPoly will not be responsible or held liable for the improper use of our materials in regards to patent infringements, nor should any of our literature be construed as an offer of indemnity for patent infringement. @2010 iPoly, Thorold, ON.