

iPoly's Sani-Armor ECO is a fully recycled high density polyethylene (HDPE). It utilizes materials that otherwise would go to landfill. The plastics are sorted and recycled maintaining a level near 100% polyethylene. This high-strength sheet can be used in many applications especially where high moisture and good cleanability is required. Although chemical and corrosion-resistance properties are not tested, SAniArmor ECo will not be affected by any chemical that is resisted by standard HDPE. As this resin is 100% recycled content, actual results

TECHNICAL INFORMATION

Property	Method	Unit	Nominal Value*
Density	ASTM D-792	g/cm ³	0.939 to 0.963
Tensile strength at yield	ASTM D-638	psi	3740
Tensile modulus	ASTM D-638	psi	n/a
Elongation at yield	ASTM D-638	%	19
Elongation at break	ASTM D-638	%	710
Tensile impact	DIN 53448	ft-lbs/in ²	535
Flexural modulus	ASTM D-790	psi	159,000
Flexural strength	ASTM D-790	psi	3,620
Izod impact	ASTM D-4020	ft-lbs/in ²	8.5
IZOD impact notched	ASTM D-2240	ft-lbs/in ²	3.3
Compressive modulus	ASTM D-695	psi	n/a
Compressive deformation	ASTM D-621	% at 1000 psi	n/a
Melting point	ASTM D-3417	°F	275
Hardness	ASTM D-2240	Shore D	65
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	161
Max. operating temp.		°F	165
Volume Resistivity	ASTM D-257	Ohm-cm	n/a
Surface Resistivity	ASTM D-257	Ohm	n/a
Water absorption 24hrs.	ASTM D-570	%	basically nil

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