



LIBBYECO

Physical Properties

Libby MFG's ECO is fully recycled high density polyethylene (HDPE). It uses a blend of recycled material drastically reducing the amount of waste generated in our landfills. This highly durable sheet can be used in many applications where there is high moisture and good cleanability. Although chemical and corrosion-resistance properties are not tested, LibbyEco will be not affected by any chemical that is resisted by standard HDPE as this resin is 100% recycled plastic.

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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