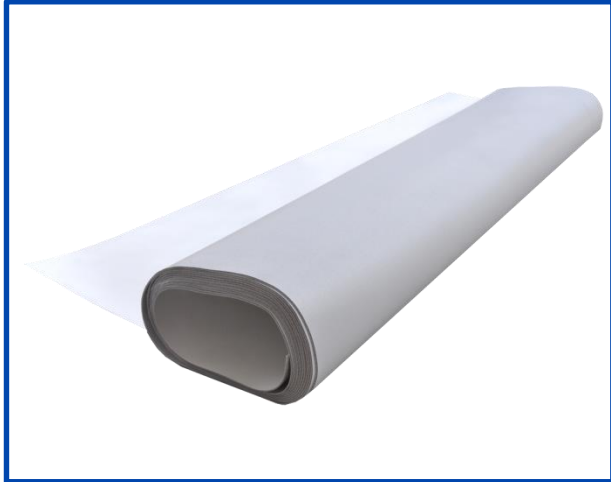




Duro-Tuff® | Single-Ply PVC Roof Membrane

ENVIRONMENTAL PRODUCT DECLARATION SUMMARY



Company Name Duro-Last®, Inc.

Product Name Duro-Tuff 50-mil, 60-mil & 80-mil

Description Single-Ply PVC roofing membrane

Product Category Rule (PCR) ASTM, PCR for Single-Ply Roofing Membranes

Contact Information 525 Morley Drive
Saginaw, MI 48601
(800)248-0280
www.Duro-Last.com

Material content to 1% by product weight.

Material Content

Material	Mass %		
	50-mil	60-mil	80-mil
PVC resin	43%	45%	48%
Plasticizer	25%	26%	28%
Polyester scrim reinforcement	22%	18%	12%
Pigment	3%	3%	4%
Flame retardant	<1%	<1%	<1%
Other materials	6%	6%	6%
Biocide, Phonoxarsine, 10, 10'-oxydi-	<1%	<1%	<1%









Certifications



ENVIRONMENTAL PRODUCT DECLARATION SUMMARY



LCA Stages and Impact Categories

Category	Unit	Product Stage		
		50-mil	60-mil	80-mil
 <p>Global Warming A relative measure of greenhouse gasses that when released in the atmosphere can change global weather patterns.</p>	[kg CO ₂ -eq.]	4.52	5.45	7.46
 <p>Acidification An increase in the acidity of soil and water by the conversion of air pollutants into acids. Damages ecosystems and structures. Forest dieback and crumbling building facades are visible symptoms of the effect.</p>	[kg SO ₂ -eq.]	0.04	0.04	0.06
 <p>Ozone Depletion The destruction of ozone in the ozone layer of the stratosphere which shields the earth from ultraviolet radiation that is harmful to life.</p>	[kg CFC-eq.]	3.43E-07	4.44E-07	6.75E-07
 <p>Photochemical Ozone Creation Ozone high in the atmosphere protects us from ultraviolet (UV) light, but at low levels can damage vegetation and increase asthma and other respiratory complaints.</p>	[kg O ₃ -eq.]	0.26	0.34	0.47
 <p>Eutrophication May include increased growth of biomass such as algae in lakes, which reduces the dissolved oxygen levels with a resulting loss of aquatic species.</p>	[kg N-eq.]	0.01	0.01	0.02
 <p>Non-Renewable Material Resources The reduction of available non-renewable resources.</p>	[kg]	0.48	0.63	0.97
 <p>Renewable Material Resources The reduction of available renewable resources.</p>	[kg]	0.02	0.02	0.03
 <p>Fresh Water The reduction of available fresh water resources.</p>	[l]	13.29	17.50	27.00

The declared unit represented in these tables have been defined as 1 m² of roofing membrane.

Additional Information

Recycled Content (Post/Pre-Consumer): 0% / 0%
 VOC Emissions Testing: N/A
 Recycling/Reuse Program: Recycle Your Roof program