YEMM & HART
GREEN MATERIALS
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EXTENDING THE LIFE OF EXTRACTED NATURAL RESOURCES

Origins Typical Properties

Material History	
Feed Stock	100% Post Consumer Resin (except where noted)
Primary Source	Recycling Centers

Component Material Name	Abbreviation	Estimated Percentage
High Density Polyethylene	HDPE #2	98%
Low Density Polyethylene	LDPE #4	1%
Polypropylene	PP#5	1%

Technical Specifications	ASTM Method	Units	Value
Specific Gravity	D792	Lbs/ft^3	0.952
Water Absorption	D570	%	<0.03
Compressive Strength	D695	Lbs/in	3,200 – 3,800
Flexural Modulus	D790	psi	220,000
Elongation at Yield	D638	%	16
Tensile Strength	D638	psi	3020
Elongation at Break	D638	%	1250
Tensile Impact	D1822	Ft-Lb/in^2	120
Izod Impact Strength, Notched	D256	Ft-Lb/in of notch	3 – 7
Rockwell Hardness	D785	M	67
Durometer Hardness	D2240	Shore D	68
Brittleness Temperature by Impact	D746	°F	-105
Coefficient of Linear Thermal Expansion	D696	In/in/°Fx10^{-6}	124
Thermal Conductivity	C177	Btu-in/hr-ft^2-°F	1.53
Heat Distortion Temperature Under Load	D648	°F/66 psi	156
Deformation Under Load (122f-2000psi-24hrs)	D621	%	9.3 – 20
Dielectric Strength	D229	v/mil	486
Electric Resistance	D257	ohm-cm	8.4 x 10^{14}
Dielectric Constant	D150	@ 60 Hz	2.65
Dissipation	D150	@ 60 Hz	0.006
Melt Index	D1238	°F	248 – 275
Ignition Temperature	D1929	°F	640
Smoke Density	D2843	%	13.9
Burning Rate	D635	in/min	0.79 inch
Hazardous Products of Combustion		Carbon Monoxide, Carbon Dioxide	

Polyethylene is a **CLASS 3** building material, check with local fire marshal before specifying.

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