

YEMM & HART

GREEN MATERIALS
1417 MADISON 308 MARQUAND MO 63655-9153 USA
TEL 573-783-5434 FAX 573-783-7544 www.yemmhart.com

ORIGINS
Typical Properties

EXTENDING THE LIFE OF EXTRACTED NATURAL RESOURCES

Origins Typical Properties

<u>Material History</u>			
Feed Stock	100% Post Consumer Resin (except where noted)		
Primary Source	Recycling Centers		
<u>Component Material Name</u>	<u>Abbreviation</u>	<u>Estimated Percentage</u>	
High Density Polyethylene	HDPE #2	98%	
Low Density Polyethylene	LDPE #4	1%	
Polypropylene	PP#5	1%	
<u>Technical Specifications</u>	<u>ASTM Method</u>	<u>Units</u>	<u>Value</u>
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.			
All information given herein is offered in good faith as representative of the characteristics found in materials listed herein. Physical property measurements are typical values only and are subject to normal variations in test method and product manufacture. No guarantees are expressed or implied and Yemm & Hart Ltd assumes no liability.			