

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	
Low Density Polyethylene		LDPE #4	
Polypropylene		PP#5	
<u>Technical Specifications</u>		<u>ASTM Method</u>	<u>Units</u>
Specific Gravity		D792	Lbs/ft ³
Water Absorption		D570	%
Compressive Strength		D695	Lbs/in
Flexural Modulus		D790	psi
Elongation at Yield		D638	%
Tensile Strength		D638	psi
Elongation at Break		D638	%
Tensile Impact		D1822	Ft-Lb/in ²
Izod Impact Strength, Notched		D256	Ft-Lb/in of notch
Rockwell Hardness		D785	M
Durometer Hardness		D2240	Shore D
Brittleness Temperature by Impact		D746	°F
Coefficient of Linear Thermal Expansion		D696	In/in/°Fx10 ⁻⁶
Thermal Conductivity		C177	Btu-in/hr-ft ² -°F
Heat Distortion Temperature Under Load		D648	°F/66 psi
Deformation Under Load (122f-2000psi-24hrs)		D621	%
Dielectric Strength		D229	v/mil
Electric Resistance		D257	ohm-cm
Dielectric Constant		D150	@ 60 Hz
Dissipation		D150	@ 60 Hz
Melt Index		D1238	°F
Ignition Temperature		D1929	°F
Smoke Density		D2843	%
Burning Rate		D635	in/min
Hazardous Products of Combustion		Carbon Monoxide, Carbon Dioxide	
<u>Polyethylene is a CLASS 3 building material, check with local fire marshal before specifying.</u>			
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.			