



# POLYMER INDUSTRIES

## Densetec Post Industrial LW Typical Properties

Properties	ASTM Test Method	Typical Properties
		Nominal values
<b>Physical and Mechanical Properties</b>		
Density	D792	43.2 lbs/ft <sup>3</sup>
Polyethylene Classification	D4976	Group 2, Class 3, Grade 5
<b>Mechanical Properties</b>		
Tensile strength @ Yield,	D638	3200 psi
Coefficient of Friction Static	D1894	0.31
Coefficient of Friction Kinetic	D1894	0.22
Flexual Modulus	D790	110,000 psi
Tensile IMPact Strength	D1822	70 ft-lbf/in <sup>2</sup>
Charpy Impact	ISO 11542-2	> 37.9 ft-lbf/in <sup>2</sup>
Durometer Hardness	D2240	64 Shore D
Water Absorption @ Saturation	D570	0.01%
Continus use Temperature	N/A	- 100 deg F to 180 deg F
Fire Rating	Underwriters Labs	UL94HB
Thermal Conductivity	Private Test	2.5-Btu-in/hr- ft <sup>2</sup> °F
Brittleness Temperature	D746	< -120 deg F
Heat Deflection Temperature @ 66 psi	D648	174 °F
Vicat Softening Temperature	D1525	257 °F

\*The nominal properties reported herein are typical of the product but do not reflect normal testing variance and therefore should not be used for specification purposes

\*The nominal properties reported herein were determined on compression molded samples prepared in accordance with Procrdure C of ASTM D4703, Annex A1.