



# SOUTHERN POLYMER

An **AUDIA**® Company



## PRIMALENE®

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## WPP831

High molecular weight polyethylene

### TYPICAL APPLICATIONS:

- Agricultural products
- Automotive fittings, fuel tanks
- Drums
- Food packaging
- Heavy gauge sheet
- Large part blow molding
- Pallets
- Portable fuel tanks
- Thermoformed parts

### Features:

- Excellent stress crack resistance
- High impact strength and good rigidity

Physical Properties	Typical Values*	Test Method(s)
Melt Index (190 °C/2.16 kg)	<0.10 g/10 min	D-1238
High Load Melt Index (190 °C/21.6 kg)	10 g/10 min	D-1238
Density	0.949 g/cm <sup>3</sup>	D-4883
Tensile Strength, Yield (2 in/min)	3,800 psi	D-638
Flexural Modulus	180,000 psi	D-790
ESCR, Condition B (100% Igepal), F <sub>50</sub>	>800 h	D-1693
Brittleness Temperature	<-105 °F	D-746
Vicat Softening Temperature	248 °F	D-1525
Tensile Impact Strength -40 °F 73 °F	100 ft-lb/in <sup>2</sup> 120 ft-lb/in <sup>2</sup>	D-1822

\* Values given are typical and should not be interpreted as product specification. To obtain values for specific application purposes, contact your Southern Polymer representative.

The results reported are typical and based on reliable testing procedures. However, due to variable processing methods and conditions, no guarantees or warranties are expressed or implied, including expressions of fitness for purpose or merchantability. No recommendations are made to infringe on patents.