

PRIMALENE WPP831

High Density (HMW) Polyethylene
Southern Polymer, Inc.

Message:

A high molecular weight high density polyethylene
Applications: - Agricultural products
Automotive fittings
Automotive fuel tanks
Drums
Food packaging
Heavy gauge sheet
Large part blow molding
Pallets
Portable fuel tanks
Small engine fuel tanks
Thermoformed Parts
Features: - Excellent stress crack resistance
High impact strength and good rigidity

General Information	
Features	High Density High ESCR (Stress Crack Resist.) High Impact Resistance High Molecular Weight Medium Rigidity
Uses	Agricultural Applications Automotive Applications Blow Molding Applications Drums Food Packaging Fuel Tanks Pallets Sheet Thermoforming Applications

Physical	Nominal Value	Unit	Test Method
Density	0.949	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	< 0.10	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, F50)	> 800	hr	ASTM D1693B
Melt Flow - High Load ¹	10.00	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	26.0	MPa	ASTM D638

Tensile Elongation ³ (Break)	1000	%	ASTM D638
Flexural Modulus	1240	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength			ASTM D1822
-40°C	210	kJ/m ²	
23°C	252	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	70.0	°C	ASTM D648
Brittleness Temperature	< -76.1	°C	ASTM D746
Vicat Softening Temperature	120	°C	ASTM D1525
NOTE			
1.	Condition: 190°C/21.6 kg		
2.	51 mm/min		
3.	51 mm/min		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

