

PRIMALENE WPP822

High Density (HMW) Polyethylene
Southern Polymer, Inc.

Message:

A high molecular weight high density polyethylene
Applications: - 55-gallon drums
Industrial tanks
Features: - Outstanding impact resistance
Outstanding creep resistance
Excellent ESCR
Excellent chemical resistance
FDA 21 CFR 177.1520 (c) 3.2 a

General Information			
Features	Food Contact Acceptable		
	Good Chemical Resistance		
	Good Creep Resistance		
	High Density		
	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
	High Molecular Weight		
Uses	Drums		
	Food Service Applications		
	Industrial Applications		
	Industrial Tanks		
	Non-specific Food Applications		
Agency Ratings		FDA 21 CFR 177.1520(c) 3.2a	
Physical	Nominal Value	Unit	Test Method
Density	0.954	g/cm ³	ASTM D1505
Environmental Stress-Cracking Resistance (100% Igepal, F50)	> 1000	hr	ASTM D1693B
Melt Flow - High Load ¹	5.50	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	60		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	29.0	MPa	ASTM D638
Tensile Elongation ³ (Break)	800	%	ASTM D638
Flexural Modulus - Tangent ⁴	1340	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength (23°C)	452	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed)	74.0	°C	ASTM D648
Brittleness Temperature	< -75.0	°C	ASTM D746
Vicat Softening Temperature	126	°C	ASTM D1525

NOTE			
1.	Condition: 190°C/21.6 kg		
2.	51 mm/min		
3.	51 mm/min		
4.	13 mm/min		

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