

PRIMALENE WPP700

High Density Polyethylene

Southern Polymer, Inc.

Message:

A blow molding grade high density polyethylene

Applications:

Household and chemical containers

Agricultural product containers

Food packaging

Features:

Good impact

Excellent environmental stress crack resistance

FDA approved

General Information			
Features	Food Contact Acceptable		
	Good Impact Resistance		
	High Density		
	High ESCR (Stress Crack Resist.)		
Uses	Agricultural Applications		
	Containers		
	Food Packaging		
	Household Goods		
Agency Ratings	FDA Food Contact, Unspecified Rating		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.945	g/cm ³	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.35	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal)	> 1000	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	24.0	MPa	
Break	18.0	MPa	
Tensile Elongation			ASTM D638
Yield	9.0	%	
Break	900	%	
Flexural Modulus - Tangent	1040	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	231	kJ/m ²	ASTM D1822

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	66.1	°C	ASTM D648
Brittleness Temperature	< -76.1	°C	ASTM D746
Vicat Softening Temperature	121	°C	ASTM D1525

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