

Bapolene® LL3042 BLK

Linear Low Density Polyethylene

Bamberger Polymers, Inc.

Message:

Bapolene LL3042 BLK is a black LLDPE resin specifically designed for rotational molding applications. It offers excellent environmental stress cracking resistance, warp resistance, and impact strength. It is available in pellet or powder form. UV stabilized. This product meets FDA standards for food contact applications.

General Information			
Additive	UV stabilizer		
Features	High ESCR (Stress Cracking Resistance)		
	Bending resistance		
	Impact resistance, high		
	Good UV resistance		
	Compliance of Food Exposure		
Uses	Industrial water tank		
	Agricultural water tank		
	Outdoor application		
Agency Ratings	FDA Food Exposure, Not Rated		
Appearance	Black		
Forms	Powder		
	Particle		
Processing Method	rotomolding		
Physical	Nominal Value	Unit	Test Method
Density	0.936	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.5	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693B
10% Igepal, F50	> 450	hr	ASTM D1693B
100% Igepal, F50	1000	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	15.2	MPa	ASTM D638
Tensile Elongation ² (Break)	450	%	ASTM D638
Flexural Modulus - 2% Secant	610	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	51.0	°C	ASTM D648
1.8 MPa, not annealed	37.0	°C	ASTM D648

Vicat Softening Temperature	110	°C	ASTM D1525
Additional Information			
ARM Impact, 1/8 in, -40°C: 50 ft-lbARM Impact, 1/4 in, -40°C: 176 ft-lb			
NOTE			
1.	20 mm/min		
2.	20 mm/min		

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