

Formolene® L63568

Linear Low Density Polyethylene

Formosa Plastics Corporation, U.S.A.

Message:

Formolene L63568 is a general-purpose rotational molding linear low density resin made using the BP Gas Phase Process™. The resin exhibits excellent ESCR and low temperature impact strength. The resin is NOT UV stabilized.

Formolene L63568 meets all requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520, covering safe use of polyolefin articles intended for direct food contact.

Suggested Applications:

Toys

Medium Tanks

Playground Equipment

Drums

Agricultural and Chemical Storage Tanks

General Information			
Features	Food Contact Acceptable		
	General Purpose		
	Hexene Comonomer		
	High ESCR (Stress Crack Resist.)		
	Low Temperature Impact Resistance		
Uses	Agricultural Tanks		
	Drums		
	Industrial Tanks		
	Outdoor Furnishings		
	Tanks		
	Toys		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Rotational Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.935	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.8	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693A
10% Igepal, Compression Molded, F50	200	hr	
100% Igepal, Compression Molded, F50	> 1000	hr	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, Compression Molded)	18.6	MPa	ASTM D638

Tensile Elongation ² (Yield, Compression Molded)	12	%	ASTM D638
Flexural Modulus ³ (Compression Molded)	689	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Low Temperature Impact - Compression Molded (-40°C, 3.18 mm)	61.0	J	ARM
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	50.0	°C	ASTM D648
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	1.3 mm/min		

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