

CERTENE™ LLI-2024

Linear Low Density Polyethylene
Muehlstein

Message:

LLI-2024 is a certified prime resin specially designed for injection molding applications requiring good low temperature resistance and low warpage. LLI-2024 features easy processability over a wide range of molding conditions. LLI-2024 applications include housewares, closures, caps, medical parts, and toys where toughness, high impact resistance and high gloss are required. Recommended processing temperature is 180 to 220°C., with mold at 20 to 40°C.

General Information			
Features	Low density		
	Low warpage		
	Highlight		
	Impact resistance, high		
	Workability, good		
	Low temperature impact resistance		
	Good toughness		
	Excellent appearance		
Uses	Shield		
	Household goods		
	Toys		
	Medical/nursing supplies		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.924	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 100% Igepal, Compression Molded, F50)	19.0	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, Compression Molded)	12.4	MPa	ASTM D638
Tensile Elongation ² (Break, Compression Molded)	500	%	ASTM D638
Flexural Modulus - 1% Secant ³ (Compression Molded)	448	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength (Compression Molded)	71.5	kJ/m ²	ASTM D1822

Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-90.0	°C	ASTM D746
Vicat Softening Temperature	123	°C	ASTM D1525

Additional Information

This Specimen was compression molded and was tested according to ASTM D1928 Procedure C.

Injection	Nominal Value	Unit
Processing (Melt) Temp	180 - 220	°C
Mold Temperature	20.0 - 40.0	°C

NOTE

1. 50 mm/min
2. 50 mm/min
3. 1.3 mm/min

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Recommended distributors for this material

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