

# CERTENE™ LLI-5026

Linear Low Density Polyethylene  
Muehlstein

## Message:

LLI-5026 is a certified prime copolymer designed for High-Flow INJECTION MOLDING of thin-walled, high quality applications. LLI-5026 features easy processability over a wide range of molding conditions, fast cycle times, good rigidity, high gloss surface, low temperature toughness and warpage free moldings. LLI-5026 applications include housewares, margarine tubs, containers, trash cans, toys, lids, closures and caps. Suggested processing temperature is 170 to 210°C, with the mold at 20 to 40°C. LLI-5026 complies with FDA regulation 21CFR 177.1520 (c) 3.1a and most international regulations concerning the use of Polyethylene in contact with food articles.

General Information			
Features	Low warpage		
	Low Temperature Flexibility		
	Rigidity, high		
	Highlight		
	Copolymer		
	Workability, good		
	Fast molding cycle		
	High liquidity		
	Compliance of Food Exposure		
Uses	Thin wall parts		
	Cover		
	Shield		
	Household goods		
	Container		
	Shell		
	Toys		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.926	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	50	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 100% Igepal, Compression Molded, F50)	5.00	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield, Compression Molded)	15.2	MPa	ASTM D638

Tensile Elongation <sup>2</sup> (Break, Compression Molded)	90	%	ASTM D638
Flexural Modulus - 1% Secant (Compression Molded)	448	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	440	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-65.0	°C	ASTM D746
Vicat Softening Temperature	91.0	°C	ASTM D1525
Additional Information			
All test specimens were compression molded according to ASTM D1928 procedure C.			
Injection	Nominal Value	Unit	
Processing (Melt) Temp	170 - 210	°C	
Mold Temperature	20.0 - 40.0	°C	
NOTE			
1.	510 mm/min		
2.	510 mm/min		

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#### Recommended distributors for this material

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