

CERTENE™ LDI-4023

Low Density Polyethylene
Muehlstein

Message:

LDI-4023 is a certified prime grade specially designed for High-Flow INJECTION MOLDING applications requiring good balance of mechanical and low warpage properties. LDI-4023 features very good processability over a wide range of molding conditions, good clarity, excellent flexibility, and high surface appearance of molded articles. LDI-4023 applications include housewares, lids, closures, overcaps, medical parts, and general purpose molded articles. Recommended processing temperature is 170 to 220°C., with mold at 20 to 40°C.. LDI-4023 complies with FDR regulation 21CFR 177.1520 (c) 2.2 and most international regulations concerning the use of Polyethylene in contact with food articles.

General Information			
Features	Low warpage		
	Workability, good		
	Good flexibility		
	High liquidity		
	Definition, high		
	Compliance of Food Exposure		
	Good appearance		
Uses	Cover		
	Household goods		
	Shell		
	Medical/nursing supplies		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.2		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.923	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	40	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	13.8	MPa	ASTM D638
Tensile Elongation ² (Break)	50	%	ASTM D638
Flexural Modulus - 1% Secant ³	317	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	73.6	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	0.00	°C	ASTM D746
Vicat Softening Temperature	88.0	°C	ASTM D1525
Additional Information			
Test specimens from compression molded plaque according to ASTM D 1928 Procedure C.			

Injection	Nominal Value	Unit
Processing (Melt) Temp	170 - 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

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

