

CERTENE™ LDI-2618

Low Density Polyethylene

Muehlstein

Message:

LDI-2618 is a certified prime grade designed for High-Flow INJECTION MOLDING applications. LDI-2618 features easy processability, good clarity, excellent flexibility and good surface appearance. LDI-2618 applications include housewares, lids, closures and general purpose molded articles. Recommended processing temperature is 170° to 220°C, with mold at 20° to 40°C. LDI-2618 complies with FDA regulation 21CFR 177.1520 (c) 2.1 and most international regulations concerning the use of Polyethylene in contact with food articles.

General Information			
Features	Workability, good		
	Good flexibility		
	High liquidity		
	Definition, high		
	Compliance of Food Exposure		
	Excellent appearance		
Uses	Cover		
	Household goods		
	Shell		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.1		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	26	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	11.0	MPa	ASTM D638
Tensile Elongation (Break)	120	%	ASTM D638
Flexural Modulus - 1% Secant	238	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Instrumented Dart Impact			ASTM D3763
-20°C	16.3	J	ASTM D3763
23°C	19.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	84.0	°C	ASTM D1525
Additional Information			
Test specimens from compression molded plaque according to ASTM D4703, Procedure C.			
Injection	Nominal Value	Unit	

Processing (Melt) Temp	170 - 220	°C
Mold Temperature	20.0 - 40.0	°C

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