

CERTENE™ LDI-918

Low Density Polyethylene

Muehlstein

Message:

LDI-918 is a certified prime grade low density polyethylene resin with a medium melt index (MI), especially designed for use in color concentrate and masterbatches, where its flow properties and rheology ensure improved processability and uniform dispersion of additives. LDI-918 can be used in injection molding applications, such as: caps, food packaging containers, closures, housewares product, compound and materbatch resin. LDI-918 could be used to make injection molding products to get outstanding balance of processability and end user performance. The resin does not contain the thermal stabilizer and LDI-918 complies with FDA regulation 21CFR 177.1520(c3).1a / 3.2a, and most international regulations for use in contact with food.

General Information			
Features	Dispersible		
	Workability, good		
	Medium liquidity		
	Compliance of Food Exposure		
Uses	Composite		
	Shield		
	Household goods		
	Masterbatch		
	Food container		
	Shell		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
	FDA 21 CFR 177.1520(c) 3.2a		
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)	9.2	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	10.5	MPa	ASTM D638
Fracture	8.00	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	33	%	ASTM D638
Fracture	210	%	ASTM D638
Flexural Modulus - 1% Secant ²	221	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Instrumented Dart Impact (23°C)	24.4	J	ASTM D3763

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	86.0	°C	ASTM D1525
Melting Temperature (DSC)	110	°C	Internal method

Additional Information

Test made on injection molded Type 1 tension test specimen according to ASTM D 4703, procedure C.

NOTE

1. 51 mm/min
2. 1.3 mm/min

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