

CERTENE™ HI-6351

High Density Polyethylene

Muehlstein

Message:

HI-6351 is a certified prime grade designed for INJECTION MOLDING of thin-wall containers. HI-6351 offers a balance of excellent processability, good impact strength and good stiffness. HI-6351 applications include lids and frozen food containers. HI-6351 complies with FDA regulation 21CFR 177.1520(c) 3.2a.

General Information			
Features	Rigid, good		
	High density		
	Impact resistance, good		
	Workability, good		
	Compliance of Food Exposure		
Uses	Thin wall container		
	Cover		
	Food container		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.951	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	63	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	59		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield, molding	17.2	MPa	ASTM D638
Fracture, molding	28.3	MPa	ASTM D638
Tensile Elongation ² (Break, Compression Molded)	10	%	ASTM D638
Flexural Modulus - 2% Secant (Compression Molded)	1000	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	122	°C	ASTM D1525
Additional Information			
Test specimens from compression molded plaque according to ASTM D4976.			
NOTE			

1.	50 mm/min
2.	50 mm/min

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