

CERTENE™ HI-5052

High Density Polyethylene
Muehlstein

Message:

HI-5052 is a certified prime grade designed for INJECTION MOLDING of multi-cavity thin-wall food containers. HI-5052 offers a balance of excellent processability, good impact strength, good stiffness and toughness. HI-5052 applications include lids and frozen food containers. HI-5052 complies with FDA regulation 21CFR 177.1520(c) 3.2a.

General Information			
Features	Rigid, good		
	High density		
	Impact resistance, good		
	Workability, good		
	Good toughness		
	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	0.952	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	50	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	62		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, Compression Molded)	23.4	MPa	ASTM D638
Tensile Elongation ² (Break, Compression Molded)	15	%	ASTM D638
Flexural Modulus (Compression Molded)	1000	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	119	°C	ASTM D1525
Additional Information			
Test specimens from compression molded plaque according to ASTM D4976.			
NOTE			
1.	50 mm/min		

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