

# Prixene® EA050I65

High Density Polyethylene

POLYMAT

## Message:

Prixene ® EA050I65 is a high density polyethylene copolymer having a narrow molecular weight distribution. It is intended for injection molding applications where a good balance of processability and end-use properties are required. Typical applications includes cuvettes, containers, multipurpose boxes, industrial parts, household items in large containers.

The features presented are good strength and easy processability.

This material meets the Food and Drug Administration requirements of 21CFR 177.1520.

General Information			
Features	Copolymer		
	Good Processability		
	Good Strength		
	High Density		
	Narrow Molecular Weight Distribution		
Uses	Containers		
	Household Goods		
	Industrial Parts		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.952	g/cm <sup>3</sup>	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (10% Igepal, F50)	8.00	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	66		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	26.9	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	800	%	ASTM D638
Flexural Modulus - Tangent	1280	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°C)	190	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	84.0	°C	ASTM D648
Vicat Softening Temperature	128	°C	ASTM D1525
NOTE			

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

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Recommended distributors for this material

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