

CERTENE™ PBM-1NB

Polypropylene Impact Copolymer

Muehlstein

Message:

PBM-1NB is a certified prime High Impact Copolymer for BLOW MOLDING, THERMOFORMING and PROFILE EXTRUSION applications. PBM-1NB has a balance of stiffness and toughness making it an excellent choice for a variety of applications. PBM-1NB complies with FDA regulation 21CFR 177.1520(c3).1a / 3.2a, and with most international regulations concerning the use of Polypropylene in contact with food articles.

General Information			
Features	Food Contact Acceptable		
	Good Stiffness		
	Good Toughness		
	High Impact Resistance		
	Impact Copolymer		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Pellets		
Processing Method	Blow Molding		
	Profile Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	0.901	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.2	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness ¹ (R-Scale)	100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	25.9	MPa	ASTM D638
Tensile Elongation (Yield)	8.0	%	ASTM D638
Flexural Modulus - 1% Secant	1170	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ²			ASTM D256
0°C	85	J/m	
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ³ (0.45 MPa, Unannealed)	95.0	°C	ASTM D648
NOTE			

1.	Test made on injection molded Type 1 tension test specimen according to ASTM D4101.
2.	Test made on injection molded Type 1 tension test specimen according to ASTM D4101.
3.	Test made on injection molded Type 1 tension test specimen according to ASTM D4101.

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