

CERTENE™ PBM-2NB

Polypropylene Impact Copolymer

Muehlstein

Message:

PBM-2NB is a certified prime BLOW MOLDING NO BREAK grade developed for Extra High Izod Impact containers produced by Thermoforming, Extrusion-Blow or Injection-Blow molding equipment. PBM-2NB is a Nucleated resin of high melt strength offering optimized melt stability for consistent, easy processability, and Very Good Low Temperature Drop Impact resistance. PBM-2NB typical applications include pharmaceutical, food and dairy containers, cosmetics, toiletry, and health aid products requiring superior Rigidity, Toughness and Good Organoleptic properties. PBM-2NB complies with FDA regulation 21CFR 177.1520 (a)(3)(i) (c)3.1+3.2, and most international regulations concerning Polypropylene use in contact with food .

General Information			
Additive	Nucleating agent		
Features	Ultra-high impact resistance		
	Nucleated		
	Rigidity, high		
	Impact copolymer		
	Workability, good		
	Good sensory characteristics		
	Good melt strength		
	Low temperature impact resistance		
	Good toughness		
	Compliance of Food Exposure		
Uses	Cosmetics		
	Food container		
	Drug		
	Medical/nursing supplies		
	Bathroom accessories		
Agency Ratings	FDA 21 CFR 177.1520(a) 3 (i)		
	FDA 21 CFR 177.1520(c) 3.1		
	FDA 21 CFR 177.1520(c) 3.2		
Forms	Particle		
Processing Method	Blow molding		
Physical	Nominal Value	Unit	Test Method
Density	0.902	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness ¹ (R-Scale)	82		ASTM D785
Mechanical	Nominal Value	Unit	Test Method

Tensile Strength ² (Yield, Injection Molded)	29.6	MPa	ASTM D638
Tensile Elongation ³ (Yield, Injection Molded)	9.0	%	ASTM D638
Flexural Modulus - 1% Secant ⁴ (Injection Molded)	1240	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Injection Molded)	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	88.0	°C	ASTM D648
Vicat Softening Temperature ⁵	135	°C	ASTM D1525
NOTE			
1.	Injection molded		
2.	50 mm/min		
3.	50 mm/min		
4.	1.3 mm/min		
5.	Injection molded		

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