

CERTENE™ PBM-05NB

Polypropylene Impact Copolymer
Muehlstein

Message:

PBM-05NB is a certified prime NO BREAK grade developed for Extra High Izod Impact. Containers produced by Thermoforming, Extrusion-Blow or Injection-Blow molding equipment exhibit good Low Temperature Drop Impact. PBM-05NB typical applications include pharmaceutical, food and dairy containers, cosmetics, toiletry, and health aid products requiring superior Rigidity, Toughness and Good Organoleptic properties. PBM-05NB 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			
Features	Food Contact Acceptable		
	Good Organoleptic Properties		
	Good Toughness		
	High Rigidity		
	Impact Copolymer		
	Low Temperature Impact Resistance		
	Ultra High Impact Resistance		
Uses	Bathroom Accessories		
	Cosmetics		
	Food Containers		
	Medical/Healthcare Applications		
	Pharmaceuticals		
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	Pellets		
Processing Method	Extrusion Blow Molding		
	Injection Blow Molding		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	0.902	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.50	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness ¹ (R-Scale)	78		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)	10	%	ASTM D638
Flexural Modulus - 1% Secant ⁴ (Injection Molded)	1340	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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