

CERTENE™ PBM-20NB

Polypropylene Impact Copolymer

Muehlstein

Message:

PBM-20NB is a certified prime grade specially designed for injection molding applications featuring High Impact Performance. PBM-20NB applications include storage containers, toys, crates and consumer products. PBM-20NB complies with FDA regulation 21CFR 177.1520 concerning the Polypropylene use in contact with food articles.

General Information			
Features	Impact copolymer		
	Impact resistance, high		
	Compliance of Food Exposure		
Uses	Container		
	Toys		
	Consumer goods application field		
	Loading box		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 3.20 mm, Injection Molded)	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm, Injection Molded)	21.0	MPa	ASTM D638
Tensile Elongation ² (Yield, 3.20 mm, Injection Molded)	8.0	%	ASTM D638
Flexural Modulus - 1% Secant ³	965	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	No Break		ASTM D256
Additional Information			
Tests made on injection-molded specimens 1/8 in (3.2 mm) thick molded according to ASTM D 4101.			
NOTE			
1.	50 mm/min		
2.	50 mm/min		

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