

# CERTENE™ PBM-21

Polypropylene Impact Copolymer  
Muehlstein

Message:

PBM-21 is a certified prime grade for injection molding applications needing Medium Impact Performance. PBM-21 applications include storage containers, bins and crates. PBM-21 complies with FDA regulation 21CFR 177.1520(c) 3.1a, conditions of use C-H (per 21CFR 176.170(c)).

General Information			
Features	Impact copolymer		
	Compliance of Food Exposure		
	Medium impact resistance		
Uses	Container		
	Loading box		
Agency Ratings	FDA 21 CFR 176.170(c) 1		
	FDA 21 CFR 177.1520(c) 3.1a		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	26.2	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Yield)	7.0	%	ASTM D638
Flexural Modulus - 1% Secant <sup>3</sup>	1030	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	90.0	°C	ASTM D648
Additional Information			
Tests made on injection-molded specimens molded according to ASTM D 4101.			
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	1.3 mm/min		

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#### Recommended distributors for this material

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