

# CERTENE™ PBM-20

Polypropylene Impact Copolymer

Muehlstein

## Message:

PBM-20 is a certified prime grade Impact injection molding copolymer designed for applications requiring excellent balance of stiffness and impact resistance. PBM-20 offers improved processability, high flow rate, fast cycling, very good dimensional stability, and very good impact resistance at low temperatures. PBM-20 applications include automotive parts and interior trim, appliance and furniture parts, pet carriers, toys, large or heavy parts, caps, closures and housewares. PBM-20 complies with FDA regulation 21CFR 177.1520 (a)(3)(i) / (c)3.1 + 3.2, and most international regulations concerning the use of Polypropylene in contact with food.

General Information			
Features	Good dimensional stability		
	Rigid, good		
	Impact copolymer		
	Impact resistance, high		
	Workability, good		
	Fast molding cycle		
	High liquidity		
	Low temperature impact resistance		
	Compliance of Food Exposure		
Uses	Industrial components		
	Shield		
	Home appliance components		
	Furniture		
	Household goods		
	Application in Automobile Field		
	Car interior equipment		
Agency Ratings	Toys		
	FDA 21 CFR 177.1520(a) 3 (i)		
	FDA 21 CFR 177.1520(c) 3.1		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2		
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
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	81		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield, Injection Molded)	21.9	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Yield, Injection Molded)	7.0	%	ASTM D638
Flexural Modulus - 1% Secant <sup>3</sup> (Injection Molded)	1080	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Injection Molded)	160	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Injection Molded)	88.0	°C	ASTM D648
Vicat Softening Temperature	132	°C	ASTM D1525
Additional Information			
All specimens were injection molded according to ASTM D2146 Type 1.			
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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