

# CERTENE® PBM-10

Polypropylene Impact Copolymer  
Muehlstein

Message:

PBM-10 is a certified prime grade Medium-Impact INJECTION MOLDING specially designed for applications requiring good impact resistance at low temperatures. PBM-10 features very good processability, medium-high flow for fast mold filling, very good dimensional stability, excellent heat resistance, and optimal balance of mechanical properties. PBM-10 typical applications include automotive parts and interior trimming, appliance parts, tackle boxes, gun and tool cases, toys, industrial components, caps, closures and housewares. Recommended processing temperature is between 210 - 220°C. PBM-10 complies with FDA regulation 21CFR 177.1520 (a)(3)(i) / (c)3.1 + 3.2, and with most international regulations concerning the use of Polypropylene in contact with food articles.

General Information			
Features	Good dimensional stability		
	Impact copolymer		
	Workability, good		
	Fast molding cycle		
	Good formability		
	High liquidity		
	Low temperature impact resistance		
	Heat resistance, high		
	Compliance of Food Exposure		
	Medium impact resistance		
Uses	Shield		
	Home appliance components		
	Household goods		
	Application in Automobile Field		
	Sporting goods		
	Shell		
	Toys		
	Consumer goods application field		
Agency Ratings	Hard packaging		
	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	0.902	g/cm <sup>3</sup>	ASTM D1505

Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	24.1	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)	130	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	85.0	°C	ASTM D648
Vicat Softening Temperature	140	°C	ASTM D1525
Additional Information			
Test made on injection molded Type 1 tension test specimen according to ASTM D 2146.			
Injection	Nominal Value	Unit	
Processing (Melt) Temp	210 - 220	°C	
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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