

# CERTENE™ PBM-12

Polypropylene Impact Copolymer  
Muehlstein

Message:

PBM-12 is a certified prime grade Medium-Impact INJECTION MOLDING specially designed for applications requiring good impact resistance at low temperatures. PBM-12 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-12 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-12 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	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Dimensional Stability		
	Good Processability		
	High Heat Resistance		
	Impact Copolymer		
	Low Temperature Impact Resistance		
	Medium Flow		
	Medium Impact Resistance		
Uses	Appliance Components		
	Automotive Applications		
	Caps		
	Fishing Applications		
	Household Goods		
	Industrial Parts		
	Sporting Goods		
	Toys		
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	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)	12	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method

Rockwell Hardness <sup>1</sup> (R-Scale)	80		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	24.1	MPa	ASTM D638
Tensile Elongation (Yield)	13	%	ASTM D638
Flexural Modulus - 1% Secant <sup>2</sup>	1020	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact <sup>3</sup> (23°C)	120	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load <sup>4</sup> (0.45 MPa, Unannealed)	85.0	°C	ASTM D648
Vicat Softening Temperature <sup>5</sup>	140	°C	ASTM D1525
Injection	Nominal Value	Unit	Test Method
Processing (Melt) Temp	210 to 220	°C	
NOTE			

1.

Test made on injection molded  
Type 1 tension test specimen  
according to ASTM D 2146.

2.

1.3 mm/min

3.

Test made on injection molded  
Type 1 tension test specimen  
according to ASTM D 2146.

4.

Test made on injection molded  
Type 1 tension test specimen  
according to ASTM D 2146.

5.

Test made on injection molded  
Type 1 tension test specimen  
according to ASTM D 2146.

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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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