

CERTENE™ PBM-12AN

Polypropylene Impact Copolymer
Muehlstein

Message:

PBM-1A2N is a certified prime grade High-Impact Nucleated injection molding copolymer formulated with Antistatic. It offers easy processability, protection against static generation, improved crystallization rate for faster cycles, good low temperature Impact resistance, very good dimensional stability, and excellent balance of mechanical properties. PBM-12AN typical applications include automotive and appliance parts, Industrial components, caps, closures and housewares. PBM-12AN 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			
Additive	Nucleating agent		
	Antistatic property		
Features	Nucleated		
	Good dimensional stability		
	Impact copolymer		
	Antistatic property		
	Impact resistance, high		
	Workability, good		
	Fast molding cycle		
	Low temperature impact resistance		
Uses	Industrial components		
	Shield		
	Home appliance components		
	Household goods		
	Application in Automobile Field		
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)	12	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	80		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, Injection Molded)	27.6	MPa	ASTM D638
Tensile Elongation ² (Yield, Injection Molded)	4.0	%	ASTM D638

Flexural Modulus - 1% Secant ³ (Injection Molded)	1280	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Injection Molded)	190	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Injection Molded)	104	°C	ASTM D648
Vicat Softening Temperature	135	°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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