

CERTENE™ PBM-8N

Polypropylene Impact Copolymer
Muehlstein

Message:

PBM-8N is a certified prime grade High-Impact Nucleated copolymer specially formulated for improvement of injection molding crystallization rates. PBM-8N offers easy processability with fast mold filling, faster cycles, excellent low temperature Impact resistance, high stiffness and optimal balance of mechanical properties. PBM-8N typical applications include automotive parts, battery cases, appliance parts, heavy duty components, closures and housewares. PBM-8N 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		
Features	Nucleated		
	Rigidity, high		
	Impact copolymer		
	Workability, good		
	Fast molding cycle		
	Low temperature impact resistance		
Uses	Compliance of Food Exposure		
	Battery box		
	Shield		
	Home appliance components		
	Household goods		
	Application in Automobile Field		
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	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.901	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	83		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, Injection Molded)	26.2	MPa	ASTM D638
Tensile Elongation ² (Yield, Injection Molded)	5.0	%	ASTM D638

Flexural Modulus - 1% Secant ³ (Injection Molded)	1310	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Injection Molded)	240	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Injection Molded)	110	°C	ASTM D648
Vicat Softening Temperature	155	°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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