

CERTENE™ PBM-18N

Polypropylene Copolymer
Muehlstein

Message:

PBM-18N is a certified prime grade copolymer resin Nucleated exhibiting high impact strength with medium melt flow rate and excellent processability; designed for injection molded large consumer and industrial part applications. PBM-18N has features of excellent processability, colorability, good dimensional stability, good mold release, good thermal stability and no break impact. PBM-18N can be processed by injection molding and It can be used in automotive applications, consumer applications and household goods. PBM-18N complies with FDA regulation 21CFR 177.1520(c)3.1a / 3.2a, and most international regulations for use in contact with food.

General Information			
Additive	Nucleating agent		
Features	Nucleated		
	Good dimensional stability		
	Copolymer		
	Impact resistance, high		
	Workability, good		
	Good coloring		
	Medium liquidity		
	Thermal stability, good		
	Compliance of Food Exposure		
	Good demoulding performance		
Uses	Industrial application		
	Household goods		
	Application in Automobile Field		
	Consumer goods application field		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
	FDA 21 CFR 177.1520(c) 3.2a		
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)	18	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	23.0	MPa	ASTM D638
Tensile Elongation ² (Yield)	4.5	%	ASTM D638
Flexural Modulus - 1% Secant			

-- ³	1250	MPa	ASTM D790A
-- ⁴	1400	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	97.0	°C	ASTM D648
Additional Information			
Test made on injection molded Type 1 tension test specimen according to ASTM D 2146.			
NOTE			
1.	51 mm/min		
2.	51 mm/min		
3.	1.3 mm/min		
4.	13 mm/min		

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Recommended distributors for this material

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

