

CERTENE™ PHM-2N

Polypropylene Homopolymer
Muehlstein

Message:

PHM-2N is a certified prime grade homopolymer resin nucleated designed for general purpose EXTRUSION COMPRESSION MOLDING of articles such as caps, closures for arbonated beverage containers and general purpose compression molding applications. It has an excellent strength and high crystallization temperature. PHM-2N features an additive formulation to improve high-speed processing, high slip, with excellent mold release. It can be sterilized by autoclave sterilization, Ethylene Oxide sterilizable, steam s terilizable. PHM-2N can be processed by extrusion compression molding, compounding and injection molding. PHM-2N applications include caps. Closures for carbonated beverage containers, general purpose, construction application, industrial applications, packaging and rigid packaging. PHM-2N 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	Autoclave Sterilizable
	Ethylene Oxide Sterilizable
	Fast Molding Cycle
	Food Contact Acceptable
	Good Mold Release
	Good Processability
	High Rigidity
	High Slip
	High Strength
	Homopolymer
	Nucleated
	Steam Sterilizable
Uses	Caps
	Closures
	Construction Applications
	General Purpose
	Industrial Applications
	Lids
	Packaging
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a
	FDA 21 CFR 177.1520(c) 3.2a
Forms	Pellets
Processing Method	Compounding
	Compression Molding
	Extrusion

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)	2.1	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	36.0	MPa	ASTM D638
Tensile Elongation (Yield)	9.6	%	ASTM D638
Flexural Modulus - 1% Secant ¹	1610	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ² (23°C)	59	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ³ (0.45 MPa, Unannealed)	100	°C	ASTM D648
Vicat Softening Temperature ⁴	152	°C	ASTM D1525

NOTE

- 1.3 mm/min
- 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

