

CERTENE™ PHM-35AN

Polypropylene Homopolymer
Muehlstein

Message:

PHM-35AN is a certified prime grade Nucleated Polypropylene designed for injection molding of lightweight and thin-walled articles. PHM-35AN contains antistatic and offers good balance of high flow processability with high contact clarity, good tensile strength, short cycling, excellent dimensional stability, and good surface finishing. PHM-35AN applications include intricate long-flow path designs, multi-cavity parts, caps, closures, housewares, containers and toys. PHM-35AN processing temperature is between 220° to 240°C with mold at 20°-50°C. PHM-35AN complies with FDA regulation 21CFR 177.1520 and most international regulations concerning Polypropylene use in contact with food.

General Information			
Additive	Nucleating agent		
	Antistatic property		
Features	Nucleated		
	Good dimensional stability		
	High tensile strength		
	Homopolymer		
	Antistatic property		
	Workability, good		
	Fast molding cycle		
	High liquidity		
	Definition, high		
	Compliance of Food Exposure		
Excellent appearance			
Uses	Thin wall container		
	Industrial components		
	Shield		
	Household goods		
	Toys		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.903	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	35	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)	32.0	MPa	ASTM D638
Tensile Elongation ² (Yield, Injection Molded)	12	%	ASTM D638
Flexural Modulus - 1% Secant ³ (Injection Molded)	1170	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Injection Molded)	32	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Injection Molded)	93.0	°C	ASTM D648
Vicat Softening Temperature	152	°C	ASTM D1525
Additional Information			
All specimens were injection molded according to ASTM D2146 Type 1.			
Injection	Nominal Value	Unit	
Processing (Melt) Temp	220 - 240	°C	
Mold Temperature	20.0 - 50.0	°C	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	1.3 mm/min		

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