CERTENE™ PHM-12AN

Polypropylene Homopolymer

Muehlstein

Message:

PHM-12AN is a certified prime grade Nucleated Polypropylene designed for injection molding general purpose applications. PHM-12AN contains antistatic and combines a good balance of medium-high flow processability with good tensile strength, high stiffness and good contact clarity. PHM-12AN applications include thin-walled containers, medical ware, housewares, caps and closures, toys, and housings for small electrical appliances. PHM-12AN recommended processing temperature is between 210° to 230°C with mold at 20°-50°C. PHM-12AN complies with FDA regulation 21CFR 177.1520 and with most international regulations concerning the use of Polypropylene in contact with food.

General Information				
Additive	Antistatic property			
Features	Rigidity, high			
	High tensile strength			
	Homopolymer			
	Antistatic property			
	Workability, good			
	High liquidity			
	Definition, high			
	Compliance of Food Exposure			
	General			
Uses	Thin wall container			
	Electrical/Electronic Applications			
	Electrical housing			
	Shield			
	Household goods			
	General			
	Toys			
	Medical/nursing supplies			
Agency Ratings	FDA 21 CFR 177.1520			
Forms	Particle			
Processing Method	Injection molding			
Physical	Nominal Value	Unit	Test Method	
Density	0.905	g/cm³	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)	95		ASTM D785	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Strength ¹ (Yield, Injection Molded)	37.2	MPa	ASTM D638	

Tensile Elongation ² (Yield, Injection			
Molded)	9.0	%	ASTM D638
Flexural Modulus - 1% Secant ³ (Injection			
Molded)	1770	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Injection			
Molded)	35	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45			
MPa, Unannealed, Injection Molded)	116	°C	ASTM D648
Vicat Softening Temperature	155	°C	ASTM D1525
Additional Information			
All specimens were injection molded acco	rding to ASTM D2146 Type 1.		
Injection	Nominal Value	Unit	
Processing (Melt) Temp	210 - 230	°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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