

CERTENE™ PRM-35ARN

Polypropylene Random Copolymer
Muehlstein

Message:

PRM-35ARN is a certified prime grade Injection Molding copolymer designed for applications requiring excellent balance of high stiffness and good impact strength. PRM-35ARN is formulated with Antistatic for protection against dust build-up, features Controlled Rheology for high quality straight flat surfaces of moldings, and advantages of Nucleation: faster mold set-up, reduced warpage and sink marks, freedom from stress whitening, improved tensiles and stiffness. PRM-35ARN typical applications include thin-walled food containers, margarine tubs, yogurt and ice-cream pots, Video cassette boxes, toys, flower pots, and promotional drinking cups. PRM-35ARN 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		
	Antistatic property		
Features	Nucleated		
	Low warpage		
	Rigid, good		
	Antistatic property		
	Impact resistance, good		
	Controlled rheology		
	Compliance of Food Exposure		
	Random copolymer		
Uses	Thin wall container		
	Cup		
	Video tape		
	Food container		
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	0.900	g/cm ³	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)	102		ASTM D785
Mechanical	Nominal Value	Unit	Test Method

Tensile Strength ¹ (Yield, Injection Molded)	31.0	MPa	ASTM D638
Tensile Elongation ² (Yield, Injection Molded)	9.0	%	ASTM D638
Flexural Modulus - 1% Secant ³ (Injection Molded)	1520	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Injection Molded)	43	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	148	°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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