CERTENE™ PBS-4AN

Polypropylene Impact Copolymer

Muehlstein

Message:

kg)

PBS-4AN is a certified prime grade Impact copolymer specially designed for extrusion of sheet for thermoforming food packaging containers. PBS-4AN features Antistatic to protect against dust pick-up, and Nucleation for faster crystallization times. It combines good thermal stability and fast cycles with good Toughness and Stiffness, good melt processing stability, and very good Organoleptic properties. PBS-4AN other applications include injection molding of household goods, food storage containers, and hospital wares. PBS-4AN complies with FDA regulation 21CRF 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		
	Rigid, good		
	Impact copolymer		
	Antistatic property		
	Fast molding cycle		
	Good sensory characteristics		
	Good processing stability		
	Thermal stability, good		
	Good toughness		
	Compliance of Food Exposure		
Uses	Household goods		
	Food packaging		
	Food container		
	Medical/nursing supplies		
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	Sheet extrusion molding		
	Thermoforming		
	5		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16			
ka)	10	$\alpha/10$ min	

g/10 min

ASTM D1238

4.0

Hardness	Nominal Value	Unit	Test Method		
Rockwell Hardness (R-Scale)	80		ASTM D785		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Strength ¹ (Yield, Injection Molded)	30.0	MPa	ASTM D638		
Tensile Elongation ² (Yield, Injection					
Molded)	8.0	%	ASTM D638		
Flexural Modulus - 1% Secant ³ (Injection					
Molded)	1380	MPa	ASTM D790		
Impact	Nominal Value	Unit	Test Method		
Notched Izod Impact (23°C, Injection					
Molded)	96	J/m	ASTM D256		
Thermal	Nominal Value	Unit	Test Method		
Deflection Temperature Under Load (0.45					
MPa, Unannealed, Injection Molded)	102	°C	ASTM D648		
Vicat Softening Temperature	145	°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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