CERTENE™ PRB-2

Polypropylene Random Copolymer

Muehlstein

Message:

PRB-2 is a certified prime BLOW MOLDING grade developed for containers produced by Extrusion-Blow or Injection-Blow molding equipment. PRB-2 is a high purity resin of high melt strength offering optimized melt stability for consistent and easy processability, good core release, high Impact Srength, Stiffness, and high Gloss surfaces. PRB-2 typical applications include pharmaceutical containers, cosmetics, toiletry, and health aid products with good Clarity, Rigidity and Toughness. PRB-2 complies with FDA regulation 21CFR 177.1520 (a)(3)(i) (c)3.1+3.2, and most international regulations concerning Polypropylene use in contact with food.

General Information	
Features	High purity
	Rigidity, high
	Rigid, good
	Highlight
	High melt stability
	Impact resistance, high
	Workability, good
	Good melt strength
	Definition, high
	Good toughness
	Compliance of Food Exposure
	Good demoulding performance
	Random copolymer
Uses	Cosmetics
	Drug packaging
	Medical/nursing supplies
	Bathroom accessories
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	Extrusion blow molding
	Injection blowing molding

Physical	Nominal Value	Unit	Test Method
Density	0.902	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.0	g/10 min	ASTM D1238

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness [1] (R-Scale)	84		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2] (Yield, Injection Molded)	29.6	MPa	ASTM D638
Tensile Elongation [3] (Yield, Injection Molded)	11	%	ASTM D638
Flexural Modulus - 1% Secant [4] (Injection Molded)	1100	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, Injection Molded)	69	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	88.0	°C	ASTM D648
Vicat Softening Temperature [5]	135	°C	ASTM D1525
NOTE			
1.	Injection molded		
2.	50 mm/min		
3.	50 mm/min		
4.	1.3 mm/min		
5.	Injection molded		

Recommended distributors for this material

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WECHAT