

CERTENE™ PRB-2C

Polypropylene Random Copolymer
Muehlstein

Message:

PRB-2C is a certified prime grade Clarified BLOW MOLDING developed for high contact clarity containers produced by Extrusion and blow or injection molding processes. PRB-2C is a high purity resin of high melt strength offering optimized melt stability for consistent and easy processability, good core release, high Impact strength, Stiffness, and high Gloss surfaces. PRB-2C typical applications include cosmetics, toiletry, and health aid products requiring superior Clarity, Rigidity and Toughness. PRB-2C complies with FDA regulation 21CFR 177.1520 and most international regulations concerning Polypropylene use in contact with food.

General Information			
Additive	Clarifier		
Features	Contact Clarity		
	Food Contact Acceptable		
	Good Melt Strength		
	Good Mold Release		
	Good Processability		
	Good Toughness		
	High Clarity		
	High Gloss		
	High Impact Resistance		
	High Melt Stability		
	High Purity		
	High Rigidity		
	High Stiffness		
	Random Copolymer		
Uses	Cosmetics		
	Medical/Healthcare Applications		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Blow Molding		
	Extrusion Blow Molding		
	Injection Blow 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
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	29.0	MPa	ASTM D638

Tensile Elongation (Yield)	12	%	ASTM D638
Flexural Modulus - 1% Secant ¹	1030	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ² (23°C)	270	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ³ (0.45 MPa, Unannealed)	82.0	°C	ASTM D648
Vicat Softening Temperature ⁴	135	°C	ASTM D1525
NOTE			
1.	1.3 mm/min		
2.	Specimens were injection molded per conditions in ASTM D4101.		
3.	Specimens were injection molded per conditions in ASTM D4101.		
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