

Braskem PP PRB 0131

Polypropylene Random Copolymer

Braskem

Message:

PRB 0131 is a low melt flow rate random copolymer with high transparency. This resin is designed for thermoforming, blow moulding and extrusion. This product exhibits an excellent processability, low haze and excellent impact strength.

Applications:

High transparency thermoformed packaging for food, cosmetics and hygiene and cleaning products; Bottles for food, cosmetics and cleaning products; Returnable water bottles; High transparency sheets, toy kit and cosmetic packages

General Information			
Features	Food Contact Acceptable		
	Good Processability		
	High Clarity		
	High Impact Resistance		
	Low Flow		
	Random Copolymer		
Uses	Bottles		
	Clear Sheet		
	Cosmetic Packaging		
	Food Packaging		
	Packaging		
Agency Ratings	FDA 21 CFR 177.1520		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Blow Molding		
	Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.902	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.3	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale, Injection Molded	81		ASTM D785
R-Scale	79		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield, Injection Molded	28.0	MPa	ASTM D638

Yield, Injection Molded	31.0	MPa	ISO 527-2
Tensile Elongation (Yield, Injection Molded)	13	%	ASTM D638, ISO 527-2
Flexural Modulus			
1% Secant : Injection Molded	900	MPa	ASTM D790
Injection Molded	950	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C, Injection Molded	300	J/m	ASTM D256
23°C, Injection Molded	19	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, Injection Molded	83.0	°C	ASTM D648
0.45 MPa, Unannealed	75.0	°C	ISO 75-2/B
1.8 MPa, Unannealed, Injection Molded	48.0	°C	ASTM D648
1.8 MPa, Unannealed	48.0	°C	ISO 75-2/A
Vicat Softening Temperature	130	°C	ISO 306/A, ASTM D1525 ¹
Optical	Nominal Value	Unit	Test Method
Haze			
Injection Molded	13	%	ISO 13468-1
1000 μm, Injection Molded	24	%	ASTM D1003
NOTE			

1. Loading 1 (10 N)

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