

Braskem PP RP 141

Polypropylene Random Copolymer

Braskem

Message:

RP 141 is a high melt flow rate random copolymer designed for injection molding. This product offers outstanding transparency, very good stiffness/impact strength balance and excellent processability.

Applications:

Cosmetic packaging; Containers for freezer; Disposable packages with high transparency.

General Information			
Features	Food Contact Acceptable		
	Good Impact Resistance		
	Good Processability		
	Good Stiffness		
	Random Copolymer		
Uses	Cosmetic Packaging		
	Food Containers		
	Low Temperature Applications		
	Packaging		
Agency Ratings	FDA 21 CFR 177.1520		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Injection Molding		
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)	40	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale, Injection Molded	83		ASTM D785
R-Scale	83		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield, Injection Molded	30.0	MPa	ASTM D638
Yield, Injection Molded	28.0	MPa	ISO 527-2
Tensile Elongation			
Yield, Injection Molded	14	%	ASTM D638
Yield, Injection Molded	16	%	ISO 527-2
Flexural Modulus			

1% Secant : Injection Molded	1050	MPa	ASTM D790
Injection Molded	1150	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
-20°C, Injection Molded	20	J/m	ASTM D256
23°C, Injection Molded	40	J/m	ASTM D256
23°C, Injection Molded	4.4	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	79.0	°C	ISO 75-2/B
1.8 MPa, Unannealed, Injection Molded	49.0	°C	ASTM D648
1.8 MPa, Unannealed	49.0	°C	ISO 75-2/A
Vicat Softening Temperature	127	°C	ISO 306/A, ASTM D1525 ¹
Optical	Nominal Value	Unit	Test Method
Haze			
Injection Molded	14	%	ISO 13468-1
1000 µm, Injection Molded	18	%	ASTM D1003
NOTE			
1.	Loading 1 (10 N)		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

