

# Hanwha Total PP RB221

Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

RB221 is a propylene-ethylene random copolymer grade for blow molding applications. This resin is suited to bottles and containers requiring high clarity such as cosmetics, beverage, shampoo, and medical bottles.

General Information			
UL YellowCard	E140331-560240		
Additive	High Slip Nucleating Agent		
Features	Good Processability High Clarity High Impact Resistance High Rigidity High Slip Nucleated Random Copolymer		
Uses	Blow Molding Applications Bottles Containers Cosmetics Medical/Healthcare Applications		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Blow Molding Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm <sup>3</sup>	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 (R-Scale)	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	31.4	MPa	ASTM D638
Tensile Elongation (Break)	500	%	ASTM D638
Flexural Modulus	1180	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	54	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	95.0	°C	ASTM D648
Vicat Softening Temperature	135	°C	ASTM D1525
Melting Temperature	151	°C	
Optical	Nominal Value	Unit	Test Method
Haze	28	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	150 to 190	°C	
Cylinder Zone 2 Temp.	150 to 190	°C	
Cylinder Zone 3 Temp.	150 to 190	°C	
Cylinder Zone 4 Temp.	150 to 190	°C	
Cylinder Zone 5 Temp.	150 to 190	°C	
Adapter Temperature	180 to 220	°C	
Die Temperature	180 to 220	°C	

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#### Recommended distributors for this material

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