

# Hanwha Total PP RB230

Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

RB230 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                       |                                 |                   |             |
|---|---------------------------------|-------------------|-------------|
| Additive                                  | Nucleating Agent                |                   |             |
| Features                                  | Good Processability             |                   |             |
|   | High Clarity                    |                   |             |
|   | High Impact Resistance          |                   |             |
|   | Nucleated                       |                   |             |
|   | Random Copolymer                |                   |             |
| Uses                                      | Blow Molding Applications       |                   |             |
|   | Bottles                         |                   |             |
|   | Containers                      |                   |             |
|   | Cosmetics                       |                   |             |
|   | Medical/Healthcare Applications |                   |             |
| Appearance                                | Clear/Transparent               |                   |             |
|   | Opaque                          |                   |             |
| 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)               | 80                              |                   | ASTM D785   |
| Mechanical                                | Nominal Value                   | Unit              | Test Method |
| Tensile Strength (Yield)                  | 31.4                            | MPa               | ASTM D638   |
| Tensile Elongation (Break)                | 500                             | %                 | ASTM D638   |
| Flexural Modulus                          | 981                             | MPa               | ASTM D790   |
| Impact                                    | Nominal Value                   | Unit              | Test Method |
| Notched Izod Impact                       | 69                              | J/m               | ASTM D256   |
| Thermal                                   | Nominal Value                   | Unit              | Test Method |

| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 90.0          | °C   | ASTM D648   |
|---|---------------|------|-------------|
| Vicat Softening Temperature                             | 132           | °C   | ASTM D1525  |
| Melting Temperature                                     | 148           | °C   |             |
| Optical   | Nominal Value | Unit | Test Method |
| Haze  | 70            | %    | 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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