

# HM035NB

Post Consumer Recycled High Density Polyethylene Resin

**Special Characteristics :** HM035NB is purple color recycled high density polyethylene blow molding grade. They are used for wide variety blow molding applications of small to medium size container for detergent and personal care containers. Recycled plastic source is from post-consumer recycle bottle, which is collected from domestic waste only.

**Typical Applications :** Personal care containers, Detergent containers, Lubricant oil containers

**Typical Properties :**

| Properties                                             | HM035NB | Unit               | Test Method |
|--------------------------------------------------------|---------|--------------------|-------------|
| Physical Properties                                    |         |                    |             |
| Melt Flow Rate (2.16 kg/190°C)                         | 0.58    | g/10 min           | ASTM D1238  |
| Density                                                | 0.959   | g/cm <sup>3</sup>  | ASTM D1505  |
| Limonene                                               | Max. 3  | ppm                | ENV-Method  |
| Mechanical Properties (Based on compression specimens) |         |                    |             |
| Tensile Strength at Yield                              | 270     | kg/cm <sup>2</sup> | ASTM D638   |
| Tensile Strength at Break                              | 160     | kg/cm <sup>2</sup> | ASTM D638   |
| Elongation at Break                                    | 330     | %                  | ASTM D638   |
| Flexural Modulus                                       | 12,600  | kg/cm <sup>2</sup> | ASTM D790   |
| Notched Izod Impact Strength                           | 6       | kg.cm/cm           | ASTM D256   |
| Color Properties on pellet                             |         |                    |             |
| L*                                                     | 36 ± 6  | -                  | CIELAB      |
| a*                                                     | 2 ± 5   | -                  | CIELAB      |
| b*                                                     | -8 ± 10 | -                  | CIELAB      |

**Recommendation:**

Extruder temperature : 165 -190 °C

Die temperature : 180 - 195 °C

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**Note :** Properties reported here are typical values of the product, not to be considered as specifications.  
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**Manufacturer:** ENVICCO Limited (Thailand)