

# HN035NB

Post Consumer Recycled High Density Polyethylene Resin

**Special Characteristics :** HN035NB is recycled high density polyethylene blow molding grade. They are used for wide variety blow molding applications of small to medium size container. Recycled plastic source is mainly from unpigmented post-consumer recycle HDPE food and beverage bottle, which is collected from domestic waste only.

**Typical Applications :** Personal care containers, Cosmetic containers

**Typical Properties :**

| Properties  | HN035NB | Unit               | Test Method |
|---|---------|--------------------|-------------|
| <b>Physical Properties</b>                                    |         |                    |             |
| Melt Flow Rate (2.16 kg/190 °C )                              | 0.35    | g/10 min           | ASTM D1238  |
| Density   | 0.963   | g/cm <sup>3</sup>  | ASTM D1505  |
| Melting Temperature   | 132     | °C                 | ASTM D3418  |
| <b>Mechanical Properties (Based on compression specimens)</b> |         |                    |             |
| Tensile Strength at Yield                                     | 300     | kg/cm <sup>2</sup> | ASTM D638   |
| Tensile Strength ay Break                                     | 173     | kg/cm <sup>2</sup> | ASTM D638   |
| Elongation at Break   | 460     | %                  | ASTM D638   |
| Flexural Modulus  | 13,800  | kg/cm <sup>2</sup> | ASTM D790   |
| Notched Izod Impact Strength                                  | 9.3     | kg.cm/cm           | ASTM D256   |
| ESCR, F <sub>50</sub> (Condition B, 25 % Igepal)              | 24      | hrs                | ASTM D1693  |

**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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