

## HX035NB

Post Consumer Recycled High Density Polyethylene Resin

**Special Characteristics :** HX035NB is recycled high density polyethylene blow molding grade. They are used for wide variety blow molding applications of small to medium size container and extrusion profile. Recycled plastic source is mainly from post-consumer recycle HDPE bottle, which is collected from domestic waste only.

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

**Typical Properties :**

Properties	HX035NB	Unit	Test Method
<b>Physical Properties</b>			
Melt Flow Rate (2.16 kg/190 °C )	0.40	g/10 min	ASTM D1238
Density	0.961	g/cm <sup>3</sup>	ASTM D1505
Melting Temperature	132	°C	ASTM D3418
Limonene	Max 3	ppm	ENV-Method

### Mechanical Properties (Based on compression specimens)

Tensile Strength at Yield	300	kg/cm <sup>2</sup>	ASTM D638
Tensile Strength at Break	176	kg/cm <sup>2</sup>	ASTM D638
Elongation at Break	430	%	ASTM D638
Flexural Modulus	14,000	kg/cm <sup>2</sup>	ASTM D790
Notched Izod Impact Strength	10	kg.cm/cm	ASTM D256

### Color Properties on pellet

L*	Min 55	-	CIELAB
a*	Min (-5)	-	CIELAB
b*	Min 3	-	CIELAB

**Recommendation:**

Extruder temperature : 165 -190 °C

Die temperature : 180 - 195 °C