

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, Detergent containers, Lubricant oil containers

Typical Properties :

Properties	HN035NB	Unit	Test Method
Physical Properties			
Melt Flow Rate (2.16 kg/190 °C)	0.35	g/10 min	ASTM D1238
Density	0.963	g/cm ³	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 ²	ASTM D638
Tensile Strength at Break	173	kg/cm ²	ASTM D638
Elongation at Break	460	%	ASTM D638
Flexural Modulus	13,800	kg/cm ²	ASTM D790
Notched Izod Impact Strength	9.3	kg.cm/cm	ASTM D256
ESCR, F ₅₀ (Condition B, 10% Igepal)	24	hrs	ASTM D1693

Color Properties on pellet

L*	73 ± 5	-	CIELAB
a*	-1 ± 3	-	CIELAB
b*	10 ± 4	-	CIELAB

Recommendation:

Extruder temperature : 165 -190 °C

Die temperature : 180 - 195 °C

Disclaimer: To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication; however, we do not assume any liability what so ever for the accuracy and completeness of such information. We make no warranties which extend beyond the description contained herein. Nothing herein shall constitute any implied warranty of merchantability or fitness for a particular purpose. It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products. No liability can be accepted in respect of the use of our products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.

Note : Properties reported here are typical values of the product, not to be considered as specifications.
GC makes no representations as to the accuracy or completeness of the information contained herein.

Manufacturer: ENVICCO Limited (Thailand)

PTT Global Chemical Public Company Limited

555/1 Energy Complex, Building A, 18th Floor, Vibhavadi Rangsit Road, Chatuchak, Chatuchak, Bangkok 10900

Tel: +66 2265 8400 Fax: +66 2265 8500

Revised Date: November 2025