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 ay 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

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