

HW035NB

Post Consumer Recycled High Density Polyethylene Resin

Special Characteristics : HW035NB is opaque white color 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 from post-consumer recycle home and personal care bottle, which is collected from domestic waste only.

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

Typical Properties :

Properties	HW035NB	Unit	Test Method
Physical Properties			
Melt Flow Rate (2.16 kg/190°C)	0.46	g/10 min	ASTM D1238
Density	>0.970	g/cm ³	ASTM D1505
Limonene	Max. 3	ppm	ENV-Method
Mechanical Properties (Based on compression specimens)			
Tensile Strength at Yield	277	kg/cm ²	ASTM D638
Tensile Strength at Break	157	kg/cm ²	ASTM D638
Elongation at Break	490	%	ASTM D638
Flexural Modulus	13,700	kg/cm ²	ASTM D790
Notched Izod Impact Strength	6	kg.cm/cm	ASTM D256
ESCR, F ₅₀ (Condition B, 10% Igepal)	24	hrs	ASTM D1693
Color Properties on pellet			
L*	86 ± 5		CIELAB
a*	0 ± 2		CIELAB
b*	6 ± 2		CIELAB

Recommendation:

Extruder temperature : 165 -190 °C

Die temperature : 180 - 195 °C