

# HM035NJ

Post Consumer Recycled High Density Polyethylene Resin

**Special Characteristics :** HM035NJ is recycled high density polyethylene injection molding grade with grayish-green color pellets appearance . This grade is used for variety injection molding applications of household product. Recycled plastic source is from post-consumer recycle HDPE food and beverage caps from domestic waste.

**Typical Applications :** Household, Crates, Pallets, Others

**Typical Properties :**

Properties	HM035NJ	Unit	Test Method
<b>Physical Properties</b>			
Melt Flow Rate (2.16 kg/190°C)	2.0	g/10 min	ASTM D1238
Density	0.957	g/cm <sup>3</sup>	ASTM D1505

<b>Mechanical Properties (Compression specimens)</b>			
Tensile Strength at Yield	270	kg/cm <sup>2</sup>	ASTM D638
Tensile Strength at Break	140	kg/cm <sup>2</sup>	ASTM D638
Elongation at Break	200	%	ASTM D638
Flexural Modulus	12,600	kg/cm <sup>2</sup>	ASTM D790
Notched Izod Impact Strength	4 (C)*	kg.cm/cm	ASTM D256

\*C = Complete Break

<b>Color Properties on pellet</b>			
L*	38 ± 5	-	CIELAB
a*	(-12) ± 4	-	CIELAB
b*	10 ± 3	-	CIELAB

**Recommendation :**

Injection molding temperature : 170 - 220 °C