

HD1100J

High Density Polyethylene Resin

Special Characteristics

InnoPlus HD1100J is high density polyethylene injection molding grade. They are tailored with narrow molecular weight distribution (MWD) and high flow ability. They have optimum strength property which used for general part, auto part, toy and house ware.

Typical Application : Toys, Auto parts, Household products

Typical Properties :

Properties	Value	Unit	Test Method
<u>Physical Properties</u>			
Melt Flow Rate (190 °C, 2.16 kg)	18	g/10 min	ASTM D1238
Density	0.958	g/cm ³	ASTM D1505
Vicat softening point @ 10 N, 50 °C/hr	116	°C	ASTM D1525
Melting Point	128	°C	ASTM D3418
<u>Mechanical Properties(Based on compression specimens)</u>			
Tensile Strength @ Yield	300	kg/cm ²	ASTM D638
Tensile Strength @ Break	150	kg/cm ²	ASTM D638
Elongation @ Break	60	%	ASTM D638
Stiffness	10000	kg/cm ²	ASTM D747
Flexural Modulus	12500	kg/cm ²	ASTM D790
Notched Izod Impact Strength	4 (C)*	kg.cm/cm	ASTM D256
Durometer Hardness	64	Shore D	ASTM D2240
ESCR, F ₅₀ (Condition B, 25 % Igepal)	Initial Break	hrs	ASTM D1693

* C = Complete Break

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Processing Condition :

Extruder temperature : 165 - 190 °C

Die temperature : 180 - 195 °C

FDA Statement :

HDPE under the brand InnoPlus complies with U.S. FDA 21 CFR 177.1520 regulation for polyethylene used in articles that contact food except for articles used for packaging or holding food during cooking.

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