

HD2218J

High Density Polyethylene Resin

Product Description

InnoPlus HD2218J is high density polyethylene (HDPE) grade specially designed for the injection molding with offers the combination of easy processability and excellent mechanical properties.

This grade is UV stabilized for good weathering resistance, suitable for outdoor applications.

Typical Application : Crate, Pallet, Garbage bin, Outdoor applications

Typical Properties :

Properties	Value	Unit	Method
<i>Physical Properties</i>			
Melt Flow Rate (2.16 kg/190 °C)	4	g/10 min	ASTM D1238
Density	0.954	g/cm ³	ASTM D1505
Vicat Softening Point @ 10 N, 50 °C/hr	123	°C	ASTM D1525
Melting Point	129	°C	ASTM D3418
<i>Mechanical Properties</i>			
Tensile Strength @ Yield	250	kg/cm ²	ASTM D638
Tensile Strength @ Break	280	kg/cm ²	ASTM D638
Elongation @ Break	>1000	%	ASTM D638
Stiffness	8300	kg/cm ²	ASTM D747
Flexural Modulus	11900	kg/cm ²	ASTM D790
Notched Izod Impact Strength	5 (C)*	kg.cm/cm	ASTM D256
Durometer Hardness	64	Shore D	ASTM D2240
ESCR, F ₅₀ (Condition B, 25 % Igepal)	6	hrs	ASTM D1693

* C = Complete Break

Recommendation :

Extruder's temperature : 170 - 200 °C

Nozzle temperature : 185 - 205 °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.