

HD2418J

High Density Polyethylene Resin

Special Characteristics

InnoPlus HD2418J 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 : Crates, Pallets, Garbage bins, outdoor application

Typical Properties :

Properties	Value	Unit	Test Method
<u><i>Physical Properties</i></u>			
Melt Flow Rate (190 °C, 2.16 kg)	7.0	g/10 min	ASTM D1238
Density	0.964	g/cm ³	ASTM D1505
Vicat softening point @ 10 N, 50 °C/hr	127.5	°C	ASTM D1525
Melting Point	137	°C	ASTM D3418
<u><i>Mechanical Properties(Based on compression specimens)</i></u>			
Tensile Strength @ Yield	310	kg/cm ²	ASTM D638
Tensile Strength @ Break	175	kg/cm ²	ASTM D638
Elongation @ Break	>1000	%	ASTM D638
Stiffness	8300	kg/cm ²	ASTM D747
Flexural Modulus	14800	kg/cm ²	ASTM D790
Notched Izod Impact Strength	5 (C)*	kg.cm/cm	ASTM D256
Durometer Hardness	65	Shore D	ASTM D2240
ESCR, F ₅₀ (Condition B, 25 % Igepal)	4	hrs	ASTM D1693

* C = Complete Break

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Processing Condition :

Extruder temperature : 170 - 200 °C

Die 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.

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Note : Properties reported here are typical values of the product, not to be considered as specifications.

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