

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 Applications : Crate, Pallet, Garbage bin, outdoor applications.

Typical Properties :

Properties	HD2418J	Unit	Test Method
<i><u>Physical Properties</u></i>			
Melt Flow Rate (2.16 kg/190°C)	7	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
<i><u>Mechanical Properties</u></i>			
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	15000	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

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

PTT Global Chemical makes no representations as to the accuracy or completeness of the information contained herein.

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Processing Condition :

Injection Molding temperature : 190 - 250 °C

FDA Statement :

HDPE under the brand InnoPlus complies with U.S. FDA 21 CFR 177.1520 (c) (2.1) and (2.2) regulation for polyethylene used in articles that contact food suitable for articles used for packaging or holding food during cooking.

Disclaimer :

This Applications specified herein is for reference only and not suitable for using in the manufacturing of any products in medical and pharmaceutical sectors.

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