

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
Physical Properties			
Melt Flow Rate (190 °C, 2.16 kg)	7	g/10 min	ASTM D1238
Density	0.964	g/cm ³	ASTM D1505
Vicat softening point	128	°C	ASTM D1525
Melting Temperature	137	°C	ASTM D3418
Mechanical Properties			
Tensile Strength at Yield	310	kg/cm ²	ASTM D638
Tensile Strength at Break	175	kg/cm ²	ASTM D638
Elongation at Break	> 1,000	%	ASTM D638
Stiffness	8,300	kg/cm ²	ASTM D747
Flexural Modulus	15,000	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)	5	hrs	ASTM D1693

* C = Complete Break

Recommendation :

Injection molding process— Extrusion temperature : 190 - 230 °C

FDA Statement :

Food and Drug Administration US FDA 21 CFR 177.1520 and Commission Regulation (EU) 10/2011. More compliance regulations and standards that related to the product shall be exhibited in Product Regulatory Certificate (PRC) document.

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

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