

HD2200JP

High Density Polyethylene Resin

Product Description :

InnoPlus HD2200JP is high density polyethylene which can be processed in either injection or compression molding. This grade provides easy processing characteristics and exhibits excellent organoleptic properties

Additive : non slip agent grade

Typical Application : Caps and Closures for sparking and non sparking mineral/stilled water , tea and juice.

Typical Properties :

Properties	Typical Value	Unit	Test Method
<u>Physical Properties</u>			
Melt Flow Rate (190°C, 2.16 kg)	3.5	g/10 min	ASTM D1238
Density	0.961	g/cm ³	ASTM D1505
Vicat Softening Point @ 10 N, 50 °C/hr	126	°C	ASTM D1525
Melting Point	131	°C	ASTM D3418
<u>Mechanical Properties</u>			
Tensile Strength @ Yield	310	kg/cm ²	ASTM D638
Tensile Strength @ Break	210	kg/cm ²	ASTM D638
Elongation @ Break	>1000	%	ASTM D638
Stiffness	11000	kg/cm ²	ASTM D747
Flexural Modulus	14500	kg/cm ²	ASTM D790
Notched Izod Impact Strength	5 (C)*	kg.cm/cm	ASTM D256
Durometer Hardness	66	Shore D	ASTM D2240
ESCR, F ₅₀ (Condition B, 10 % Igepal)	4	hrs	ASTM D1693

* C = Complete Break

Recommendation :

Injection Molding Process— Extrusion Temperature : 170 - 200 °C,
Compression Molding process— Extrusion Temperature 140 - 165 °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.

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

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