HD1600JP / HD2200JP

High Density Polyethylene Resin

Product Description :

InnoPlus HD1600JP and HD2200JP are high density polyethylene which can be processed in either injection or compression molding. Both grades have excellent organoleptic properties which prevent unpleasant odor and taste from cap or closure to transfer to water.

Typical Application : Screw caps and closures for mineral, stilled, sparkling and carbonated water

Typical Properties :

Properties	Typical Value		Unit	Test Method
	HD1600JP	HD2200JP		
Physical Properties				
Melt Flow Rate (190°C,2.16 kg)	12	3.5	g/10 min	ASTM D1238
Density	0.958	0.961	g/cm^3	ASTM D1505
Vicat Softening Point @ 10 N, 50 °C/hr	118	126	°C	ASTM D1525
Melting Point	129	131	°C	ASTM D2117
Mechanical Properties				
Tensile Strength @ Yield	290	310	kg/cm^2	ASTM D638
Tensile Strength @ Break	200	210	kg/cm^2	ASTM D638
Elongation @ Break	230	>1000	%	ASTM D638
Stiffness	9100	11000	kg/cm^2	ASTM D747
Flexural Modulus	13500	14500	kg/cm^2	ASTM D790
Notched Izod Impact Strength	3 (C)*	5 (C)*	kg.cm/cm	ASTM D256
Durometer Hardness	64	66	Shore D	ASTM D2240
ESCR (Condition B, 25 % Igepal)	5	6	hrs, F50	ASTM D1693

* C = Complete Break

Recommendation :

Injection Molding Process— Extrusion Temperature : InnoPlus HD1600JP 160-190 °C, InnoPlus HD2200JP 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.
PTT Chemical makes no representations as to the accuracy or completeness of the information contained herein.

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Revised Date : March, 2010