

Provisional Technical Datasheet



High Molecular Weight High Density Polyethylene 002DF50 for Film Applications

Product Description :

HDPE 002DF50 is a high molecular weight high density bimodal resin grade produced by Basell's Hostalen Slurry process. The resin is having good processability, superior dart impact strength & sealing properties

HDPE 002DF50 is particularly recommended for Counter bags, Carrier bag, film for Wrapping applications & Liners

Typical Properties*

Sr. No.	Properties	Test Method	Units	Values**
1	Melt Flow Index (190°C & 5.00 kg)	ASTM D1238	g/10 min	0.22
2	Density (23°C)	ASTM D1505	g/cc	0.950
3	Tensile Strength @ Yield	ASTM D638	MPa	27
4	Elongation @ Break	ASTM D638	%	1000
5	Notch Izod Impact Strength (23°C)	ASTM D256	J/m	No Break
6	Flexural Modulus	ASTM D790	MPa	850
7	Dart Impact Strength (20 µ Blown Film)	ASTM D1709	gm	280
8	Hardness	ASTM D2240	Shore D	62
9	Softening Temperature	ASTM D1525	°C	125

* Typical Values and not to be taken as specifications

** Test Specimen from compression moulded sheet at 23°C, samples not annealed

Regulatory Requirements:

HDPE 002DF50 shall meet "Specification for Polyethylene" for safe use in contact with Foodstuff, Pharmaceutical & Drinking water as per IS:10146-1982. The grade and Additives incorporated shall meet with requirements of FDA:CFR Title 21, 177.1520, Olefin Polymers.

Storage & Handling:

Prevent HDPE Material from direct exposure to sunlight & heat to avoid quality deterioration. The storage location should be dry, dust free and the storage temperature should not exceed 50°C. Non - compliance to these precautionary measures can lead to degradation of the product.

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