

Producer: IndianOil / India

## HDPE 002DF50

### Description:

**HDPE 002DF50** is a high molecular weight high density bimodal resin grade produced by Basell 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.

PROPERTIES	TEST METHOD	UNITS	VALUES**
Melt Flow Index (190°C & 5.00 kg)	ASTM D1238	dg/min	0.22
Density (23°C)	ASTM D1505	gm/cc	0.950
Tensile Strength @ Yield	ASTM D638	MPa	27
Elongation @ Break	ASTM D638	%	1000
Notch Izod Impact Strength (23°C)	ASTM D256	J/m	Np Break
Flexural Modulus	ASTM D790	MPa	850
Dart Impact Strength	ASTM D1709	gm/cc	280 <sup>#</sup>
Hardness	ASTM D2240	Shore D	62
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

<sup>#</sup> Result of 20 $\mu$  Blown film extruded on 120mm die diameter, 1.2mm die gap, 4 BUR

### 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 FDA:CFR Title21,177.1520, 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.