

## Provisional Technical Datasheet



### High Density Polyethylene 012DB54 for Blow Moulding Application

#### Product Description :

HDPE 012DB54 is a high density bimodal resin grade produced by Basell's Hostalen Slurry process. The resin is having good processability, good balance of stiffness, ESCR & impact properties

HDPE 012DB54 is General purpose blow moulding grade recommended for containers/bottles upto 10 Litre capacity for packaging of Oil, Vanaspati & general purpose packaging

#### Typical Properties \*

| Sr. No. | Properties                         | Test Method | Units    | Values** |
|---------|------------------------------------|-------------|----------|----------|
| 1       | Melt Flow Index ( 190°C & 5.00 kg) | ASTM D1238  | g/10 min | 1.20     |
| 2       | Density ( 23°C)                    | ASTM D1505  | g/cc     | 0.954    |
| 3       | Tensile Strength @ Yield           | ASTM D638   | MPa      | 26       |
| 4       | Elongation @ Yield                 | ASTM D638   | %        | 10       |
| 5       | Notch Izod Impact Strength ( 23°C) | ASTM D256   | J/m      | No Break |
| 6       | Flexural Modulus                   | ASTM D790   | MPa      | 900      |
| 7       | Hardness                           | ASTM D2240  | Shore D  | 64       |
| 8       | Softening Temperature              | ASTM D1525  | °C       | 77       |

\* Typical Values and not to be taken as specifications

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

#### Regulatory Requirements:

HDPE 012DB54 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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