High Density Polyethylene BS002W

Description:

BS002W is a High Density Polyethylene (HDPE), copolymer, that can be used to produce thin walled packages. Offers an outstanding combination of impact resistance and stiffness, excellent stress cracking resistance (ESCR), good reproducibility of the weight of bottles and excellent surface.

Applications:

Blow Molded Small Volume: Bottles for cleaning products and surfactant products.

Process:

Blow Molding.

Control Properties:

	ASTM Methods	Units	Values
Melt Flow Rate (190°C/2.16kg)	D1238	g/10 min	0.33
Melt Flow Rate (190°C/21.6kg)	D 1238	g/10 min	24
Density	D 792	g/cm^3	0.959

Typical Properties:

Plaque Properties[a]

	ASTM Methods	Units	Values
Tensile Strength at Break	D 638	MPa	35
Flexural Modulus – 1% Secant	D 790	MPa	1450
Izod Impact Strength	D 256	J/m	200
Environmental Stress Cracking Resistance[b]	D 1693	h/F50	50
Environmental Stress Cracking Resistance[c]	D 1693	h/F50	150
Deflection Temperature under Load at 0.455 MPa	D 648	ºC	75

(a) Test specimens prepared from compression molded sheet made according to ASTM D 4703.
(b) Compression molded 2 mm thickness, 0.3 mm notched-plaques. 10% Igepal. 50ºC.
(c) Compression molded 2 mm thickness, 0.3 mm notched-plaques. 100% Igepal. 50ºC.

Recommended Processing Conditions:

Temperature Profile:

- Feeding zone: 150°C to 160ºC
- Barrel: 160°C to 170ºC
- Die: 170ºC to 180°C
- Mold Temperature Range: 5°C to 25°C
- Extruders equipped with L/D at least equal to 24

Final Remarks:

1. The information presented in this Data Sheet reflects typical values obtained in our laboratories, but should not be considered as absolute or as warranted values. Only the properties and values mentioned on the Certificate of Quality are considered as guarantee of the product.
2. In some applications, Braskem has developed tailor-made resins to reach specific requirements.
3. In case of doubt regarding utilization, or for other applications, please contact our Application Engineering.
4. For information about safety, handling, individual protection, first aids and waste disposal, please see MSDS. CAS Registry number: 25213-02-9.
5. The mentioned values in this report can be changed at any moment without Braskem previous communication.
6. Braskem does not recommend this grade for packages, parts or any kind of product manufacture that will be used for storage or contact with solution that will have internal contact with human body.

7. The content of this Data Sheet replaces previous revisions published for this product.
8. 9. This resin does not contain the substance Bisphenol A (BPA, CAS # No. 80-05-7) in its composition.
9. For information about safety, handling, individual protection, first aids and waste disposal, please see MSDS. CAS Registry number: 25087-34-7.
10. The mentioned values in this report can be changed at any moment without Braskem previous communication.
11. Braskem does not recommend this grade for packages, parts or any kind of product manufacture that will be used for storage or contact with solution that will have internal contact with human body.
12. The content of this Data Sheet replaces previous revisions published for this product.
13. This resin does not contain the substance Bisphenol A (BPA, CAS # No. 80-05-7) in its composition.