# SABIC® HDPE F0863

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

## Message:

SABIC® HDPE F0863 resin is a homopolymer with a very high density manufactured by gas phase technology. The grade offers high stiffness, high temperature resistance, low water vapour transmission and a very low gel level. Because of the linear character it is advisable to use the material in combination with extrusion coating LDPE grades like SABIC® LDPE 2005EC in order to improve extrusion coating processability (motorload and Neck In).
Application
SABIC® HDPE F0863 is typically used for food packaging, release paper and photographic paper.
This product is not intended for and must not be used in any pharmaceutical/medical applications.

| General Information | |
|---|---|
| Additive | Antioxidant |
| Features | Antioxidant<br>High Density<br>High Heat Resistance<br>High Stiffness<br>Homopolymer<br>Low Gel |
| Uses | Coating Applications<br>Compounding<br>Food Packaging<br>Masterbatch<br>Release Paper |
| Processing Method | Compounding<br>Extrusion Coating |

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density | 0.964 | g/cm³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 8.0 | g/10 min | ISO 1133 |
| **Films** | **Nominal Value** | **Unit** | **Test Method** |
| Film Thickness - Tested | 25 | µm | |
| Tensile Modulus | | | ISO 527-3 |
| MD : 25 µm, Cast Film | 580 | MPa | |
| TD : 25 µm, Cast Film | 580 | MPa | |
| Tensile Stress | | | ISO 527-3 |
| MD : Yield, 25 µm, Cast Film | 26.0 | MPa | |
| TD : Yield, 25 µm, Cast Film | 24.0 | MPa | |
| MD : Break, 25 µm, Cast Film | 22.0 | MPa | |

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|---|---|---|---|
| TD : Break, 25 µm, Cast Film | 18.0 | MPa | |
| Tensile Elongation | | | ISO 527-3 |
| MD : Break, 25 µm, Cast Film | 700 | % | |
| TD : Break, 25 µm, Cast Film | 800 | % | |
| Oxygen Permeability (23°C, 25 µm, Cast Film) | 0.100 | $cm^3/m^2/24$ hr | Internal Method |
| Water Vapor Transmission Rate (38°C, 100% RH, 25 µm, Cast Film) | 4.0 | $g/m^2/24$ hr | Internal Method |
| Thermal | Nominal Value | Unit | Test Method |
| Vicat Softening Temperature | 130 | °C | ISO 306/A |
| Melting Temperature (DSC) | 134 | °C | DIN 53765 |
| Enthalpy Change | 224 | J/g | DIN 53765 |
| Minimum Coating Weight [1] | 2.0 | $g/m^2$ | Internal Method |
| Neck-in [2] | 168.0 | mm | Internal Method |
| NOTE | | | |
| 1. | Measured on pilot line at 400 m/min, 300°C, airgap 300 mm | | |
| 2. | Measured on pilot line at 200 m/min, 300°C, 10 $g/m^2$, airgap 300 mm | | |



Recommended distributors for this material

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