

# Hostalen GF 9055 F

High Density Polyethylene  
LyondellBasell Industries

## Technical Data

### Product Description

Hostalen GF 9055F is a high density polyethylene. Films made of Hostalen GF 9055F provide a good barrier against water vapour. It contains antioxidants and is delivered in pellet form.

Foodlaw compliance information about this product can be found in separate product documentation.

This product is not intended for use in medical and pharmaceutical applications.

### General

|                           |                                                                             |                                 |                         |
|---------------------------|-----------------------------------------------------------------------------|---------------------------------|-------------------------|
| Material Status           | • Commercial: Active                                                        |                                 |                         |
| Literature <sup>1</sup>   | • <a href="#">Processing - Mold Shrink (English)</a>                        |                                 |                         |
|                           | • <a href="#">Processing - PE Films (English)</a>                           |                                 |                         |
|                           | • <a href="#">Processing - Polyolefin Injection Molding Guide (English)</a> |                                 |                         |
|                           | • <a href="#">Technical Datasheet - ISO (English)</a>                       |                                 |                         |
| Search for UL Yellow Card | • <a href="#">LyondellBasell Industries</a><br>• <a href="#">Hostalen</a>   |                                 |                         |
| Availability              | • Europe                                                                    |                                 |                         |
| Additive                  | • Antioxidant                                                               |                                 |                         |
| Features                  | • Antioxidant<br>• Good Flow                                                | • Low Gel<br>• Moisture Barrier |                         |
| Uses                      | • Film                                                                      | • Food Packaging                | • Plastics Modification |
| Forms                     | • Pellets                                                                   |                                 |                         |
| Processing Method         | • Blown Film                                                                |                                 |                         |

| Physical                                 | Nominal Value Unit | Test Method |
|------------------------------------------|--------------------|-------------|
| Density                                  | 0.954 g/cm³        | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (190°C/5.0 kg) | 1.8 g/10 min       | ISO 1133    |

| Mechanical             | Nominal Value Unit | Test Method |
|------------------------|--------------------|-------------|
| Tensile Modulus        | 1000 MPa           | ISO 527-2   |
| Tensile Stress (Yield) | 27.0 MPa           | ISO 527-2   |
| Tensile Strain (Yield) | 10 %               | ISO 527-2   |

| Films                                    | Nominal Value Unit    | Test Method |
|------------------------------------------|-----------------------|-------------|
| Film Thickness - Tested                  | 30 µm                 |             |
| Film Thickness - Recommended / Available | 0.8-3.1 mil (20-80 µ) |             |
| Tensile Strength                         |                       | ISO 527-3   |
| MD: 30 µm, Blown Film                    | 26.0 MPa              |             |
| TD: 30 µm, Blown Film                    | 50.0 MPa              |             |
| Tensile Elongation - MD                  |                       | ISO 527-3   |
| Break, 30 µm, Blown Film                 | 430 %                 |             |
| Dart Drop Impact (30 µm, Blown Film)     | 30 g                  | ASTM D1709  |
| Elmendorf Tear Strength                  |                       | ISO 6383-2  |
| MD: 30 µm, Blown Film                    | 0.80 N                |             |
| TD: 30 µm, Blown Film                    | 0.20 N                |             |

| Impact                          | Nominal Value Unit | Test Method |
|---------------------------------|--------------------|-------------|
| Tensile Impact Strength (-30°C) | 30.0 kJ/m²         | ISO 8256    |

| Hardness                 | Nominal Value Unit | Test Method |
|--------------------------|--------------------|-------------|
| Shore Hardness (Shore D) | 63                 | ISO 868     |

| Thermal                     | Nominal Value Unit | Test Method |
|-----------------------------|--------------------|-------------|
| Vicat Softening Temperature | 80.0 °C            | ISO 306/B50 |

| Additional Information                                                                                                         | Nominal Value Unit | Test Method |
|--------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------|
| Staudinger Index                                                                                                               | 270 cm³/g          | ISO 1628    |
| Film properties tested using 30 µm thickness blown film extruded at a melt temperature of 190°C and a blow-up ratio of 2.65:1. |                    |             |