

Hostalen GF 9045 F

High Density (MMW) Polyethylene

LyondellBasell Industries

Technical Data

Product Description

Hostalen GF 9045F is a high density Polyethylene, having medium molar mass and a narrow molecular mass distribution.

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 ¹	• Processing - Mold Shrink (English) • Processing - PE Films (English) • Processing - Polyolefin Injection Molding Guide (English) • Technical Datasheet - ISO (English)		
Search for UL Yellow Card	• LyondellBasell Industries • Hostalen		
Availability	• Europe		
Additive	• Antioxidant		
Features	• Antioxidant • Good Tear Strength	• Medium Molecular Weight • Narrow Molecular Weight Distribution	
Uses	• Film	• Food Packaging	• Plastics Modification
Forms	• Pellets		
Processing Method	• Blown Film		

Physical	Nominal Value Unit	Test Method
Density	0.946 g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)		ISO 1133
190°C/21.6 kg	21 g/10 min	
190°C/5.0 kg	1.8 g/10 min	

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	800 MPa	ISO 527-2
Tensile Stress (Yield)	21.0 MPa	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	45.0 MPa	
TD: 30 µm, Blown Film	28.0 MPa	
Tensile Elongation - MD		ISO 527-3
Break, 30 µm, Blown Film	520 %	
Dart Drop Impact (30 µm, Blown Film)	45 g	ASTM D1709

Thermal	Nominal Value Unit	Test Method
Vicat Softening Temperature	73.0 °C	ISO 306/B50

Additional Information	Nominal Value Unit	Test Method
Staudinger Index	260 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 3:1.		

Extrusion	Nominal Value Unit
Melt Temperature	190 to 230 °C