

Hostalen GF 9045 F

High Density (MMW) Polyethylene
LyondellBasell Industries

Message:

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 Information			
Additive	Antioxidation		
Features	Antioxidation		
	Good tear strength		
	Narrow molecular weight distribution		
	Medium molecular weight		
Uses	Films		
	Food packaging		
	Plastic modification		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.946	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/21.6 kg	21	g/10 min	ISO 1133
190°C/5.0 kg	1.8	g/10 min	ISO 1133
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	ISO 527-3
TD: 30 µm, blown film	28.0	MPa	ISO 527-3
Tensile Elongation - MD (Broken, 30 µm, blown film)	520	%	ISO 527-3
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	cm ³ /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 - 230	°C	

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