

# Petrothene® GA605034X02

Linear Low Density Polyethylene

LyondellBasell Industries

## Message:

PETROTHENE GA 605 is a linear low density polyethylene designed for blown film applications requiring an enhanced combination of stiffness and strength. GA 605 can also be coextruded as a surface layer to enhance the clarity, gloss, printability and the heat seal of high molecular weight, high density polyethylene (HMW-HDPE) films. Applications include retail sacks, consumer can liners and packages, commercial and industrial packaging, as well as food packaging.

General Information			
Additive	High Antiblock		
	High Slip		
Features	Excellent Printability		
	Food Contact Acceptable		
	Good Heat Seal		
	Good Stiffness		
	Good Strength		
	High Antiblocking		
	High Clarity		
	High Gloss		
	High Slip		
	Low Density		
Uses	Consumer Applications		
	Food Packaging		
	Industrial Applications		
	Liners		
	Packaging		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Blown Film		
Physical	Nominal Value	Unit	Test Method
Density	0.926	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.80	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	ASTM D882
Secant Modulus			
1% Secant, MD : 25 µm	338	MPa	

1% Secant, TD : 25 μm	403	MPa	
Tensile Strength			ASTM D882
MD : Break, 25 μm	60.0	MPa	
TD : Break, 25 μm	37.2	MPa	
Tensile Elongation			ASTM D882
MD : Break, 25 μm	550	%	
TD : Break, 25 μm	630	%	
Dart Drop Impact (25 μm)	150	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 25 μm	150	g	
TD : 25 μm	700	g	
Optical	Nominal Value	Unit	Test Method
Haze (25.4 μm)	20	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	204 to 232	°C	

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