Petrothene® GA605034

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. GA 605-034 contains high levels of slip and antiblock.

General Information	
Additive	High smoothness High caking resistance
Features	Rigid, good High smoothness High caking resistance Good strength Compliance of Food Exposure
Uses	Packaging Films Lining Bags Industrial application Food packaging
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1
Forms	Particle
Processing Method	Film extrusion Blow film Co-extrusion molding

Physical	Nominal Value	Unit	Test Method
Density	0.930	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.70	g/10 min	ASTM D1238
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	25	µm	
secant modulus			ASTM D882
1% secant, MD: 25 µm	338	MPa	ASTM D882
1% secant, TD: 25 µm	403	MPa	ASTM D882

Tensile Strength			ASTM D882
MD: Break, 25 µm	60.0	MPa	ASTM D882
TD: Break, 25 µm	37.2	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 25 µm	550	%	ASTM D882
TD: Break, 25 µm	630	%	ASTM D882
Dart Drop Impact (25 µm, Blown Film)	150	g	ASTM D1709A
Total Energy Impact (25 µm, Blown Film)	1.49	J	ASTM D4272
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm	150	g	ASTM D1922
TD : 25 µm	700	g	ASTM D1922
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°, 25.4 µm, Blown Film)	40		ASTM D2457
Haze (25.4 µm, Blown Film)	2.0	%	ASTM D1003
Additional Information			
Film properties from 1.0 mil blown film produced with a blow up ratio of 2.5:1 and a 400°F melt temperature.			
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	204 - 232	°C	

Recommended distributors for this material

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