Petrothene® GA605

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	
Features	Rigid, good 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

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

WECHAT