Technical Data Sheet

Petrothene GA1710T

LyondellBasell

Linear Low Density Polyethylene

Product Description

Petrothene GA1710T is a pelletized linear low density polyethylene resin selected by customers for applications that require maximum toughness. This product offers excellent additive homogeneity, requires no transfer equipment modification, and facilitates clean and safe handling. Typical applications include heavy duty shipping sacks, trash can liners, commercial and industrial packaging, as well as food and consumer packaging. *Petrothene* GA1710 offers enhanced film strength, toughness and heat seal strength. In addition, these resins have excellent low temperature resistance for applications such as stretch film and frozen food packaging.

Regulatory Status

For regulatory compliance information, see *Petrothene* GA1710T Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial: Active
Availability	North America
Application	Agriculture Film; Bags & Pouches; Can Liners; Film Wrap; Food Packaging Film; Heavy Duty Packaging; Lamination Film; Liner Film; Retail Carryout Bags; Shrink Film
Market	Flexible Packaging; Rigid Packaging
Processing Method	Blown Film; Sheet and Profile Extrusion

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	1.0	g/10 min	1.0	g/10 min	ASTM D1238
Base Resin Density, (23 °C)	0.917	g/cm³	0.917	g/cm³	ASTM D792
Product Density, (23 °C)	0.922	g/cm³	0.922	g/cm³	ASTM D792
Film					
Dart Drop Impact Strength, F50	230	g	230	g	ASTM D1709
Tensile Strength at Break					
MD	5400	psi	37	MPa	ASTM D882
TD	5600	psi	38	MPa	ASTM D882
Tensile Elongation at Break					
MD	420	%	420	%	ASTM D882
TD	640	%	640	%	ASTM D882
1% Secant Modulus					
MD	29000	psi	200	MPa	ASTM D882
TD	32000	psi	220	MPa	ASTM D882
Elmendorf Tear Strength					
MD	400	g	400	g	ASTM D1922
TD	600	g	600	g	ASTM D1922
Thermal					
Vicat Softening Temperature	220	°F	105	°C	ASTM D1525
Optical					
Haze	17	%	17	%	ASTM D1003
Gloss, (45°)	45	%	45	%	ASTM D2457

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Additive					
Slip	1000	ppm	1000	ppm	LYB Method
Antiblock	6750	ppm	6750	ppm	LYB Method
Polymer Processing Aid	None		None		LYB Method

Notes

Film sample used for testing was 1.0 mil gauge, 2.5:1 BUR.

These are typical property values not to be construed as specification limits.

Processing Techniques

Recommended processing conditions for this product are a melt temperature of 400 - 450 °F and a 1.5 to 3.0:1 blow-up ratio.

Using proper techniques, these products can readily be drawn below 0.90 mils at optimum production rates.

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit http://www.lyb.com/.

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