Technical Data Sheet

Petrothene GA502022

Linear Low Density Polyethylene

Product Description

The *Petrothene* GA502 series of resins are pelletized linear low density polyethylenes for applications requiring excellent drawdown and toughness. These pelletized products offer excellent additive homogeneity, require no transfer equipment modification and facilitate clean and safe storage and handling. They can be used in either blown or cast film extrusion.

Regulatory Status

For regulatory compliance information, see *Petrothene* GA502022 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial: Active
Availability	North America
Application	Bags & Pouches; Can Liners; Film Wrap; Food Packaging Film; Lamination Film; Liner Film
Market	Flexible Packaging
Processing Method	Blown Film; Cast Film

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	2.0	g/10 min	2.0	g/10 min	ASTM D1238
Base Resin Density, (23 °C)	0.918	g/cm³	0.918	g/cm³	ASTM D1505
Product Density, (23 °C)	0.923	g/cm³	0.923	g/cm³	ASTM D1505
Film					
Dart Drop Impact Strength, F50	120	g	120	g	ASTM D1709
Tensile Strength at Break					
MD	4900	psi	33.8	MPa	ASTM D882
TD	3600	psi	24.8	MPa	ASTM D882
Tensile Elongation at Break					
MD	750	%	750	%	ASTM D882
TD	800	%	800	%	ASTM D882
1% Secant Modulus					
MD	32000	psi	221	MPa	ASTM D882
TD	36000	psi	248	MPa	ASTM D882
Elmendorf Tear Strength					
MD	170	g	170	g	ASTM D1922
TD	400	g	400	g	ASTM D1922
Additive					
Slip	1350	ppm	1350	ppm	LYB Method
Antiblock	7000	ppm	7000	ppm	LYB Method

Manufacturer website: https://www.lyondellbasell.com/en/

Product	Product Density(g/cm³)	Slip(ppm)	Antiblock (ppm)
GA502022	0.923	1350	7000
GA502024	0.918	None	None
GA502119	0.918	None	None

Notes

Film sample used for testing was 1.5 mil gauge, 2.1:1 BUR.

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

Processing Techniques

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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