

Technical Data Sheet

Petrothene GA502119

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. GA502119 is formulated without TNPP.

Application	Bags & Pouches; Can Liners; Colour Concentrates; Film Wrap; Food Packaging Film; Lamination Film; Liner Film; Stretch Wrap Film
Market	Flexible Packaging
Processing Method	Blown Film; Cast Film; Compounding

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/cm ³	0.918	g/cm ³	ASTM D1505
Product Density, (23 °C)	0.918	g/cm ³	0.918	g/cm ³	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	None		None		LYB Method
Antiblock	None		None		LYB Method



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.

