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Technical Data Sheet

Petrothene GA1810T

Linear Low Density Polyethylene



Product Description

Petrothene GA1810 is a series of pelletized linear low density polyethylene resins selected by customers for applications that require maximum strength and toughness. These products offer excellent additive homogeneity, require no transfer equipment modification, and facilitate 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. The Petrothene GA1810 series offers enhanced film strength, drawdown, toughness and heat seal strength. In addition, these resins have excellent low temperature resistance for applications such as stretch film and frozen food packaging.

Application Agriculture Film; Bags & Pouches; Can Liners; Film Wrap; Food Packaging Film;

Heavy Duty Packaging; Lamination Film; Liner Film; Retail Carryout Bags; Shrink Film

MarketFlexible Packaging; Rigid PackagingProcessing MethodBlown Film; Sheet and Profile Extrusion

Typical Properties	Nominal Value	•	Nominal Value		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)	0.918	g/cm³	0.918	g/cm³	ASTM D792
Product Density, (23 °C)	0.923	g/cm³	0.923	g/cm³	ASTM D792
Film					
Dart Drop Impact Strength, F50	200	g	200	g	ASTM D1709
Tensile Strength at Break					
MD	7500	psi	52	MPa	ASTM D882
TD	6500	psi	45	MPa	ASTM D882
Tensile Elongation at Break					
MD	620	%	620	%	ASTM D882
TD	700	%	700	%	ASTM D882
1% Secant Modulus					
MD	35000	psi	240	MPa	ASTM D882
TD	42000	psi	290	MPa	ASTM D882
Elmendorf Tear Strength					
MD	400	g	400	g	ASTM D1922
TD	650	g	650	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
Additive					
Slip	1000	ppm	1000	ppm	LYB Method
Antiblock	6750	ppm	6750	ppm	LYB Method
Polymer Processing Aid	None		None		LYB Method