

Technical Data Sheet

Petrothene Select GS906072



Linear Low Density Polyethylene

Product Description

The *Petrothene* Select series of resins are high performance hexene, linear low density polyethylenes selected by customers for use in blown film applications that require superior strength and toughness. *Petrothene* Select GS906 has a melt index of 0.6 g/10 min which can contribute to films having very high dart impact as well as excellent melt strength during blown film fabrication.

Application	Agriculture Film; Bags & Pouches; Can Liners; Film Wrap; Food Packaging Film; Heavy Duty Packaging; Lamination Film; Liner Film; Retail Carryout Bags; Shipping Sacks; Shrink Film
Market	Flexible Packaging
Processing Method	Blown Film
Attribute	Good Melt Strength; High Impact Resistance; Superior Tear Resistance

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	0.6	g/10 min	0.6	g/10 min	ASTM D1238
Base Resin Density, (23 °C)	0.9165	g/cm ³	0.9165	g/cm ³	ASTM D1505
Product Density, (23 °C)	0.9215	g/cm ³	0.9215	g/cm ³	ASTM D1505
Film					
Dart Drop Impact Strength, F50	650	g	650	g	ASTM D1709
Tensile Strength at Break					
MD	9500	psi	65.5	MPa	ASTM D882
TD	7000	psi	48.3	MPa	ASTM D882
Tensile Elongation at Break					
MD	500	%	500	%	ASTM D882
TD	700	%	700	%	ASTM D882
1% Secant Modulus					
MD	27000	psi	186	MPa	ASTM D882
TD	29000	psi	200	MPa	ASTM D882
Elmendorf Tear Strength					
MD	450	g	450	g	ASTM D1922
TD	650	g	650	g	ASTM D1922
Additive					
Slip	1350	ppm	1350	ppm	LYB Method
Antiblock	8000	ppm	8000	ppm	LYB Method
Polymer Processing Aid	Present		Present		LYB Method