

Technical Data Sheet

Petrothene NA214000



Low Density Polyethylene

Product Description

Petrothene NA214000 is a low density polyethylene resin selected by customers for high speed extrusion coating applications. This resin can be drawn down to medium coating weights at line speeds exceeding 1,500 fpm with minimum neck-in. NA214000 is typically used for applications including sugar pouches, industrial and multi-wall bags, treated and primed films and laminations.

Application	Bags & Pouches; Caps & Closures; Colour Concentrates; Food Packaging Film; Lamination Film; Sealants
Market	Flexible Packaging; Rigid Packaging
Processing Method	Extrusion Coating; Injection Molding

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	10	g/10 min	10	g/10 min	ASTM D1238
Density, (23 °C)	0.918	g/cm ³	0.918	g/cm ³	ASTM D1505
Mechanical					
Flexural Modulus, (1% Secant)	32500	psi	230	MPa	ASTM D790
Tensile Strength at Break	1550	psi	10.7	MPa	ASTM D638
Tensile Strength at Yield	1460	psi	10.0	MPa	ASTM D638
Tensile Elongation at Break	550	%	550	%	ASTM D638
Tensile Elongation at Yield	19	%	19	%	ASTM D638
Hardness					
Shore Hardness, (Shore D)	54		54		ASTM D2240
Thermal					
Vicat Softening Temperature	185	°F	85	°C	ASTM D1525
Processing Parameters					
Melt Temperature	<=625	°F	<=329	°C	