Technical Data Sheet

Petrothene NA338202

Low Density Polyethylene

Product Description

Petrothene NA338202 is a LDPE homopolymer resin selected by customers for household film and other applications that require high clarity and good stiffness combined with low COF. It contains a fast bloom slip for high speed processing.

Regulatory Status

For regulatory compliance information, see *Petrothene* NA338202 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial: Active
Availability	North America
Application	Bags & Pouches; Clarity Film; Film Wrap; Food Packaging Film; Lamination Film; Secondary Packaging
Market	Flexible Packaging
Processing Method	Cast Film

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	6.2	g/10 min	6.2	g/10 min	ASTM D1238
Density, (23 °C)	0.925	g/cm³	0.925	g/cm³	ASTM D1505
Film					
Dart Drop Impact Strength, F50	110	g	110	g	ASTM D1709
Tensile Strength at Break					
MD	3080	psi	21.2	MPa	ASTM D882
TD	2240	psi	15.4	MPa	ASTM D882
Tensile Strength at Yield					
MD	1270	psi	8.76	MPa	ASTM D882
TD	1260	psi	8.69	MPa	ASTM D882
Tensile Elongation at Break					
MD	410	%	410	%	ASTM D882
TD	590	%	590	%	ASTM D882
1% Secant Modulus, MD	21300	psi	147	MPa	ASTM D882
Elmendorf Tear Strength					
MD	465	g	465	g	ASTM D1922
TD	318	g	318	g	ASTM D1922
Optical					
Haze	6.6	%	6.6	%	ASTM D1003
Gloss, (45°)	73		73		ASTM D2457
Additive					
Slip	2800	ppm	2800	ppm	LYB Method
Antiblock	3100	ppm	3100	ppm	LYB Method

Notes

Data generated using 2.0 mil cast film.

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/.

© LyondellBasell Industries Holdings, B.V. 2026

Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.