Technical Data Sheet

Lupolen 2227K

Low Density Polyethylene



Product Description

Lupolen 2227K is a homopolymer low density polyethylene resin designed for film applications requiring premium clarity and stiffness. 2227K is selected by customers for bread bags, light produce, food packaging, zipper bags and other packaging films enhanced by clarity and sparkle. 2227K contains an antioxidant.

Regulatory Status

For regulatory compliance information, see *Lupolen* 2227K <u>Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).</u>

Status Commercial: Active

Availability Africa-Middle East; Asia-Pacific; South & Central America

Application Bags & Pouches; Clarity Film; Compounding; Film Wrap; Food Packaging Film;

Lamination Film

MarketCompounding; Flexible PackagingProcessing MethodBlown Film; Cast Film; Compounding

	Nominal		
Typical Properties	Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	4.0	g/10 min	ASTM D1238
Base Resin Density, (23 °C)	0.9225	g/cm³	ASTM D1505
Product Density, (23 °C)	0.9230	g/cm³	ASTM D1505
Film			
Dart Drop Impact Strength, F50	110	g	ASTM D1709
Tensile Strength at Break			
MD	21	MPa	ASTM D882
TD	19	MPa	ASTM D882
Tensile Strength at Yield			
MD	11	MPa	ASTM D882
TD	12	MPa	ASTM D882
Tensile Elongation at Break			
MD	400	%	ASTM D882
TD	550	%	ASTM D882
1% Secant Modulus			
MD	210	MPa	ASTM D882
TD	230	MPa	ASTM D882
Elmendorf Tear Strength			
MD	250	g	ASTM D1922
TD	250	g	ASTM D1922
Optical			
Haze	5.5	%	ASTM D1003
Gloss	75		ASTM D2457
Additive			

Slip	750 ppr	n LYB Method
Antiblock	900 ppr	m LYB Method

Notes

Data obtained from 50 micron film produced on a 50 mm extruder with a 100 mm die, 175°C melt temperature, 2.5:1 BUR, 0.635 mm die gap at 27 kg/hr.

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. 2018

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.

LyondellBasell Technical Data Sheet Date: 12/19/2023