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 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

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
Market	Compounding; Flexible Packaging
Processing Method	Blown Film; Cast Film; Compounding

Typical Properties	Nominal 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	ppm	LYB Method
Antiblock	900	ppm	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/.

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