

Promyde® BF33 LN

Polyamide 6

NUREL, S.A.

Message:

Promyde® BF33 LN is a medium viscosity lubricated and nucleated Polyamide 6 suitable for general extrusion applications and especially for cast film. Promyde® BF33 LN combines good gas barrier properties and chemical resistance, good mechanical and optical properties, high abrasion resistance and good thermoformability. The additives package ensures good surface slip properties on the polyamide side of film and improves clarity and thermoformability.

APPLICATIONS

Promyde® BF33 LN is used for the production of mono and coextruded cast and blown films that are suitable for thermoforming. In a multilayer film Promyde® BF33 LN assumes the function of a gas and aroma barrier, giving the film outstanding mechanical properties and thermoformability. The main applications are vacuum packs and thermoformed packs for food such as meat, fish and cheese.

General Information			
Additive	Lubricant		
	Nucleating Agent		
Features	Gas Barrier		
	Good Abrasion Resistance		
	Good Chemical Resistance		
	Lubricated		
	Medium Viscosity		
	Nucleated		
	Opticals		
Uses	Blown Film		
	Cast Film		
	Film		
	Food Packaging		
	Thermoforming Applications		
Processing Method	Extrusion		
	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm ³	ISO 1148
Apparent Density ¹	0.69	g/cm ³	Internal Method
Water Absorption			ISO 62
Saturation, 23°C	9.0	%	
Equilibrium, 23°C, 50% RH	3.0	%	
Extractables	< 1.0	%	ISO 6427
Moisture Content ²	< 0.10	%	Internal Method

Relative Viscosity ³ (25°C)	3.21 to 3.41		ISO 1628
Chip Size ⁴	2.50	mm	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (vs. Steel - Dynamic)	< 0.25		ISO 8295
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	μm	
Tensile Stress - MD			ISO 527-3
Yield, 50 μm	34.0	MPa	
Break, 50 μm	96.0	MPa	
Tensile Elongation - MD (Break, 50 μm)	350	%	ISO 527-3
Trouser Tear Resistance - MD (50 μm)	25.0	N/mm	ISO 6383-1
Oxygen Transmission Rate			ASTM D3985
23°C, 0% RH, 50 μm	25	cm ³ /m ² /24 hr	
23°C, 50% RH, 50 μm	15	cm ³ /m ² /24 hr	
23°C, 85% RH, 50 μm	40	cm ³ /m ² /24 hr	
Water Vapor Transmission Rate (23°C, 85% RH, 50 μm)	15	g/m ² /24 hr	ISO 15106-1
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	220	°C	ISO 3146
Optical	Nominal Value	Unit	Test Method
Haze			ASTM D1003
50.0 μm ⁵	< 0.50	%	
50.0 μm ⁶	< 5.0	%	
NOTE			
1.	NAPPA-059		
2.	NAPPA-032		
3.	1% m/v in 96% m/m sulfuric acid		
4.	NAPPA-045		
5.	Chill roll temperature 50°C		
6.	Chill roll temperature 90°C		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT