

Promyde® BF36 L

Polyamide 6

NUREL, S.A.

Message:

Promyde® BF36 L is a lubricated high viscosity Polyamide 6 for general extrusion applications and especially for cast film.

Promyde BF36 L combines good gas barrier properties and chemical resistance, good mechanical and optical properties along with high abrasion resistance and good thermoformability.

APPLICATIONS

Promyde® BF36 L is used for the production of mono and coextruded cast and blown films that are suitable for thermoforming. In a multilayer film Promyde® BF36 L assumes the function of a gas and aroma barrier, giving to 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		
Features	Gas Barrier		
	Good Abrasion Resistance		
	Good Chemical Resistance		
	High Viscosity		
	Lubricated		
	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)	3.50 to 3.70		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		

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