

Promyde® BF33

Polyamide 6

NUREL, S.A.

Message:

Promyde® BF33 is a medium viscosity Polyamide 6 used in simultaneous biaxial orientated film.

CHARACTERISTICS

Promyde® BF33 combines good gas barrier properties with chemical resistance, good mechanical and optical properties, high abrasion resistance and good thermoformability.

APPLICATIONS

Promyde® BF33 is a medium viscosity lubricated Polyamide 6 used in simultaneous biaxial orientated film

General Information			
Features	Gas Barrier		
	Good Abrasion Resistance		
	Good Chemical Resistance		
	Lubricated		
	Medium Viscosity		
	Opticals		
Uses	Bi-axially Oriented Film		
	Film		
	Thermoforming Applications		
Processing Method	Bi-axially Oriented Film		
	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm ³	ISO 1183
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
Water Vapor Transmission - 85% RH (23°C)	15	g/m ² /24 hr	ISO 15106-1
Chip Size ⁴	2.50	mm	Internal Method
Dynamic Friction Coefficient - Film/Steel	< 0.250		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	$\text{cm}^3/\text{m}^2/24 \text{ hr}$	
23°C, 50% RH, 50 μm	15	$\text{cm}^3/\text{m}^2/24 \text{ hr}$	
23°C, 85% RH, 50 μm	40	$\text{cm}^3/\text{m}^2/24 \text{ hr}$	
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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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



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