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ISO 9001 CERTIFIED

Promyde® BF745 is a high viscosity copolyamide specially formulated for the production of cast and blown film:

- High transparency
- Lower melt temperature (190-195°C)
- Low crystallization speed, low curling
- Sealing capacity at 150-170°C (depending on the sealing equipment): recyclable packaging made of polyamide
- Suitable for retort applications

Product Specifications	Values	Standard method
Melt Flow Rate (250°C/5Kg), cc/10min	15-25	ISO1133
Monomer content, %	≤ 0.5	ISO 6427
Moisture content, %	≤ 0,1	NAPPA-032

General Properties	Unit	Value	Testing method
Melting point	°C	190-195	ISO 3146
Crystallization Temperature	°C	140	ISO 3146
Density	g/cm ³	1,15	ISO 1148

Film Properties ¹	Conditions	Unit	Value	Method
Modulus	MD	MPa	1700	ISO 527-3
Stress at break	MD	MPa	55	ISO 527-3
Elongation at break	MD	%	290	ISO 527-3
Trouser tear strength	MD	N/mm	19	ISO 6383-1
Trouser tear strength	TD	N/mm	18	ISO 6383-1
Puncture energy	MD	mJ	10	ISO 14477
Haze		%	2	ASTM D1003
O ₂ transmission rate, 23°C	50% RH	cc/m ² .d	9	ASTM D3985
	90% RH		29	
Moisture vapor transmission rate, 23°C	85% RH	g/m ² .d	3	ISO 15106-1

(1) Values were measured on 50µm blown film (BUR: 2.2); the properties like those of all PA films are greatly dependent on manufacturing conditions.

APPLICATIONS

Promyde® BF745 is recommended for the production of:

- Coextruded symmetric and asymmetric cast and blown films with very low curling
- Monomaterial recyclable packaging

FORMAT AND STORAGE

Promyde® BF745 is supplied in 25Kg moisture-proof packaging. The product should be stored in a dry place and opened just before processing.

PROCESSING GUIDELINES

Drying

Material is supplied pre-dried and ready to process. Bags should be stored in a dry place at room temperature. Storage time should not exceed twelve months. Material from open or damaged bags should be dried in a dry-air dryer at 70°C, the drying time required will depend on the moisture content. Drying temperatures of above 70°C should be avoided because of possible oxidation.

Extrusion Processing

Promyde® BF745 may be processed on standard single-flight, three-section screws. Better results can be obtained by using high-performance screws equipped with shearing and mixing sections. The screw length should be at least 24D, and preferably 28-33D to guarantee optimum plasticizing and conveying with the high through-put rates of film extrusion (D: screw diameter). A three-section screw should have a compression ratio (ratio of flight depth in the feed section to flight depth in the metering section) of 3:1 to 4:1.

It is recommended the length of screw sections as follows (L: overall length of screw):

Feed section: 0.25 to 0.30 x L

Compression section: 0.15 to 0.25 x L

Metering section: 0.4 to 0.55 x L

Excellent processing and film properties can be obtained by using following temperatures at the extruder:

Hopper: 40-50°C

Extruder: 200/230/240..250°C

Adapter&Die: 240-250°C

For good slipping properties we recommend to add during the film production 2% of Master Promyde BF745-Lubricant and 1% of Master Promyde BF745-Nucleant

Conditioning

Films made of Promyde[®] BF745 will achieve their final dimensions and properties after equilibrium moisture absorption.

Note: All recommendations are based on knowledge and experience. The values have been established on standard tests. The figures should be regarded as guide values and not as binding minimum values. As many factors may affect processing or applications, we recommend that you make tests to determine the suitability of a product for your particular use.