

Moplen HP527J

Polypropylene Homopolymer

LyondellBasell Industries

Message:

Moplen HP527J is a polypropylene homopolymer designed for the production of biaxially oriented polypropylene films (BOPP), especially for high shrinkage memory film. It contains a standard processing stabilisation but does not contain any slip, antiblocking agents and it is Calcium Stearate free. Moplen HP527J typical applications are BOPP shrinkage tobacco films in blends with hydrogenated hydrocarbon resins. For regulatory information please refer to Moplen HP527J Product Stewardship Bulletin (PSB).

General Information			
Additive	Processing stabilizer		
Features	Homopolymer		
	High liquidity		
	Compliance of Food Exposure		
	High shrinkage		
Uses	Bi-axially Oriented Film		
	Films		
	Thermoformed container		
	Food packaging		
	Shrinkable film		
Processing Method	Film extrusion		
	Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness	70		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1450	MPa	ISO 527-2/1
Tensile Stress (Yield)	34.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	11	%	ISO 527-2/50
Films	Nominal Value	Unit	Test Method
Secant Modulus - 1% Secant, MD ¹ (20 µm)	2700	MPa	Internal method
Tensile Strength - MD ² (Break, 20 µm)	135	MPa	Internal method
Tensile Elongation - MD ³ (Break, 20 µm)	32	%	Internal method
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature (0.45 MPa, Unannealed)	85.0	°C	ISO 75-2/B
Vicat Softening Temperature	156	°C	ISO 306/A50
Optical	Nominal Value	Unit	Test Method
Haze (20.0 μm)	0.70	%	ASTM D1003

Additional Information

Typical Film Properties of monolayer film produced on a laboratory simultaneous film stretcher (7x7@150°C)

NOTE

1.	5.0 mm/min
2.	50 mm/min
3.	50 mm/min

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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

