

Moplen HP525J

Polypropylene Homopolymer

PolyMirae

Message:

Moplen HP525J is a polypropylene homopolymer designed for the production of biaxially oriented polypropylene films (BOPP). The product is suitable for metallizable film, both as monolayer and in coextruded structures. It contains a standard processing stabilisation but does not contain any slip, antiblocking agents and it is Calcium Stearate free.

Moplen HP525J offers good optical, easy processing and very good film profile. Typical applications are BOPP packaging films and Solid Phase Thermoforming sheets.

For regulatory information please refer to Moplen HP525J Product Stewardship Bulletin (PSB).

General Information	
Features	Highlight
	Optical
	Homopolymer
	Workability, good
	Medium liquidity
	Definition, high
	Compliance of Food Exposure
Uses	Bi-axially Oriented Film
	Sheet
Forms	Particle
Processing Method	Solid Phase Press. Form. Thermoforming
	Co-extruded film
	Co-extrusion molding

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 (Shore D)	70		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/50
Yield	34.0	MPa	ISO 527-2/50
Fracture	23.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	12	%	ISO 527-2/50
Fracture	> 500	%	ISO 527-2/50
Flexural Modulus	1450	MPa	ISO 178

Coefficient of Friction ¹ (Dynamic)	0.50		ASTM D1894
Films	Nominal Value	Unit	Test Method
Tensile Modulus - Tangent (20 μm)	3000	MPa	Internal method
Tensile Stress (Break, 20 μm)	260	MPa	ISO 527-3/50
Tensile Elongation (Break, 20 μm)	85	%	ISO 527-3/50
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	85.0	°C	ISO 75-2/B
Vicat Softening Temperature	154	°C	ISO 306/A50
Optical	Nominal Value	Unit	Test Method
Gloss ² (45°)	91		Internal method
Haze ³ (50.0 μm)	0.40	%	Internal method
Additional Information			
Film Properties are from monolayer film produced on T.M. Long equipment, a laboratory simultaneous film stretcher (7x7@150°C)			
NOTE			
1.	MTM17029E		
2.	MA 17021		
3.	MA 17031		

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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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