

Moplen RP220M

Polypropylene Random Copolymer

LyondellBasell Industries

Message:

"Moplen" RP220M is a controlled rheology medium modified propylene random copolymer for manufacturing high transparent cast films. It contains no slip or antiblocking agents. It offers good processability, excellent clarity and gloss and exhibits very good heat weldability. Main applications are packaging of foodstuffs, packaging of stationary, shirts and hosiery. It is also suitable for production of stationary folders.

"Moplen" RP220M is suitable for food contact.

For regulatory information please refer to "Moplen" RP220M Product Stewardship Bulletin (PSB).

General Information			
Features	Controlled Rheology		
	Food Contact Acceptable		
	Good Processability		
	High Clarity		
	High Gloss		
	Random Copolymer		
	Weldable		
Uses	Cast Film		
	Film		
	Food Packaging		
	Packaging		
	Stationary Supplies		
Processing Method		Cast Film	
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield	23.0	MPa	
Break	26.0	MPa	
Tensile Strain			ISO 527-2
Yield	12	%	
Break	> 500	%	
Flexural Modulus	700	MPa	ISO 178
Coefficient of Friction (Dynamic, Cast Film)	> 1.0		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	
Secant Modulus			

MD : 50 µm, Cast Film ¹	560	MPa	ASTM D882
MD : 50 µm, Cast Film	500	MPa	MA 18068
TD : 50 µm, Cast Film	450	MPa	MA 18068
Tensile Strength ²			
MD : Yield, 50 µm, Cast Film	19.4	MPa	ASTM D882
MD : Break, 50 µm, Cast Film	38.0	MPa	ASTM D882
MD : Break, 50 µm, Cast Film	37.0	MPa	MA 18068
TD : Break, 50 µm, Cast Film	34.0	MPa	MA 18068
Tensile Elongation ³			
MD : Break, 50 µm, Cast Film	740	%	ASTM D882
MD : Break, 50 µm, Cast Film	850	%	MA 18068
TD : Break, 50 µm, Cast Film	900	%	MA 18068
Dart Drop Impact (Cast Film)	500	g	MA 17106
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
0°C	2.5	kJ/m ²	
23°C	10	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	60.0	°C	ISO 75-2/B
Vicat Softening Temperature	125	°C	ISO 306/A50
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.0 µm, Cast Film)	85		ISO 2813
Haze (50.0 µm, Cast Film)	< 1.0	%	ASTM D1003
NOTE			
1.	30 mm/min		
2.	500 mm/min		
3.	500 mm/min		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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



WECHAT