Moplen RP320M

Polypropylene Random Copolymer

LyondellBasell Industries

Message:

"Moplen" RP320M is a controlled rheology slightly modified propylene random copolymer for manufacturing high transparent cast films. It contains no slip or antiblocking agents. It offers excellent processability, high clarity and gloss and good heat weldability. Main applications are packaging of foodstuffs, packaging of books and stationary.
"Moplen" RP320M is suitable for food contact.
For regulatory information please refer to "Moplen" RP320M Product Stewardship Bulletin (PSB).

General Information			
Features	Controlled Rheology		
	Food Contact Acceptable		
	Good Processability		
	High Clarity		
	High Gloss		
	Random Copolymer		
	Weldable		
Uses	Film		
	Food Packaging		
	Packaging		
	Stationary Supplies		
Processing Method	Cast Film		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.900	g/cm³	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 Modulus	900	MPa	ISO 527-2/1
Tensile Stress (Yield)	25.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	11	%	ISO 527-2/50
Coefficient of Friction			DIN 53375
vs. Itself - Dynamic	> 0.50		
vs. Itself - Static	> 0.50		
Films	**Nominal Value**	**Unit**	**Test Method**
Secant Modulus - MD [1] (50 µm)	640	MPa	ASTM D882
Tensile Strength - MD [2]			ASTM D882
Yield,50 µm	19.4	MPa	
Break, 50 µm	38.0	MPa	
Tensile Elongation - MD [3]			ASTM D882

Yield, 50 µm	6.7	%	
Break, 50 µm	760	%	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
0°C	1.4	kJ/m^2	
23°C	4.5	kJ/m^2	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (0.45 MPa, Unannealed)	68.0	°C	ISO 75-2/B
Vicat Softening Temperature	130	°C	ISO 306/A50
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°, 50.0 µm)	91		ISO 2813
Haze (50.0 µm)	< 1.0	%	ASTM D1003
NOTE			
1.	30 mm/min		
2.	500 mm/min		
3.	500 mm/min		

Recommended distributors for this material

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