Moplen HP420M

Polypropylene, Homopolymer

Product Description

Moplen HP420M is a high flow polypropylene homopolymer designed for the production of biaxially oriented polypropylene films (BOPP) on tubular double bubble lines and cast film. Typical applications are BOPP packaging, laminating film and drinking straws but also packaging foodstuffs such as pasta, snacks, biscuits, bakery products and confectionery, film for packaging for flowers, books stationery, blankets, shirts, knitwear and hosiery.

For regulatory information please refer to *Moplen* HP420M Product Stewardship Bulletin (PSB).

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Africa-Middle East
Processing Methods	BOPP, Cast Film
Features	High Flow , Homopolymer
Typical Customer Applications	Film, Food Packaging Film, Lamination Film, Straws, Drinking, Surface Protection Film, Textile Packaging Film

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.900	g/cm³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	8.0	g/10 min
Mechanical			
Tensile Stress at Break	ISO 527-1, -2	21	MPa
Tensile Stress at Yield	ISO 527-1, -2	33	MPa
Tensile Strain at Break	ISO 527-1, -2	>500	%
Tensile Strain at Yield	ISO 527-1, -2	12	%
Flexural modulus	ISO 178	1350	MPa
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	85.0	°C
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	153	°C

Additional Properties

Typical film properties of laboratory casting line:
Haze, MA17031, 50 µm: 3.8%
Tensile modulus, MA 18068, 50 µm, MD/TD, 800-800 MPa
Stress at break, ASTM D882, 500 mm/min, 50 µm, MD/TD, 50-45 MPa
Elongation at break, ASTM D882, 500 mm/min, 50 µm, MD/TD, 950-1000%
Coefficient of friction, ASTM D1894, Dynamic: >1
Dart Impact strength, MA17106, 250 g.

Notes

Typical properties; not to be construed as specifications.