Moplen HP522H

Polypropylene, Homopolymer

Product Description

Moplen HP522H is a polypropylene homopolymer designed for the production of biaxially oriented polypropylene films (BOPP). The product is particularly suitable for both plain and coextruded structures for metallization. It does not contain any slip or antiblocking agents and it is Calcium Stearate free. BOPP films made of *Moplen* HP522H are widely used in the food packaging industry.

For regulatory information please refer to *Moplen* HP522H Product Stewardship Bulletin (PSB).

Product Characteristics

Status	Commercial: Active
Test Method used	ISO ASTM
Availability	Europe, Africa-Middle East
Processing Methods	BOPP
Features	Homopolymer
Typical Customer Applications	Barrier Film, BOPP, Film, Food 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	2.0	g/10 min
Mechanical			
Tensile Stress at Break (23 °C, 50 mm/min)	ISO 527-1, -2	23	N/mm²
Tensile Stress at Yield (50 mm/min)	ISO 527-1, -2	34	N/mm²
Tensile Strain at Break (50 mm/min)	ISO 527-1, -2	>500	%
Tensile Strain at Yield (50 mm/min)	ISO 527-1, -2	12	%
Flexural modulus (23 °C)	ISO 178	1450	N/mm²
Hardness			
Shore hardness (Shore D)	ISO 868	71	
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	93	°C
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	155	°C

Additional Properties

Typical Film Properties of monolayer film produced on KARO IV equipment, a laboratory simultaneous film stretcher (7x7@150°C):
Haze, MA 17031, 50 µm: 0.3%
Gloss 45°, MA17021: 91%
Tensile Tangent Modulus (0-1%), MA 18068, 5 mm/min, 20 µm: 2900 N/mm²
Stress at Break, ASTM D882, 50 mm/min, 20 µm: 250 MPa
Elongation at Break, ASTM D882, 50 mm/min, 20 µm: 90%
COF Dynamic, ASTM D1894-MTM17029E: 0.5

Notes

Typical properties; not to be construed as specifications.