Moplen HP525J

Polypropylene, Homopolymer

Product Description

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).

Product Characteristics

Status	Commercial: Active
Test Method used	ISO ASTM
Availability	Europe, Africa-Middle East
Processing Methods	BOPP, Extrusion Thermoforming
Features	High Clarity, Medium Flow, High Gloss , Homopolymer, Good Processability
Typical Customer Applications	BOPP, Food Packaging Film, Thermoformed Food Containers

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.900	g/cm³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	3.0	g/10 min
Mechanical			
Tensile Stress at Break (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	ISO 178	1450	N/mm²
Hardness			
Shore hardness (Shore D)	ISO 868	70	
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	85	°C
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	154	°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, 50µm: 0.4 %
Gloss 45°, MA 17021: 91%
Tensile Tangent Modulus (0-1%), MA 18068, 5 mm/min, 20 µm: 3000 N/mm²
Stress at Break, ASTM D882, 50 mm/min, 20 µm: 260 MPa
Elongation at Break, ASTM D882, 50 mm/min, 20 µm: 85%
COF Dynamic, ASTM D1894-MTM17029E: 0.5

Notes

Typical properties; not to be construed as specifications.