Moplen HP520H

Polypropylene, Homopolymer

Product Description

Moplen HP520H is a polypropylene homopolymer especially designed for the production of biaxially oriented polypropylene films (BOPP). It contains a general purpose formulation. Typical applications of *Moplen* HP520H are film for adhesive tapes and general packaging.

For regulatory information please refer to *Moplen* HP520H 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	BOPP, Film, Food Packaging Film, Raffia/Tapes/Strapping

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	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, 20µm: 0.4 %
Gloss 45°, MA 17021: 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.