



## 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              |
|-----------------------------------------------------|---------------|-------|-------------------|
| <b>Physical</b>                                     |               |       |                   |
| Density                                             | ISO 1183      | 0.900 | g/cm <sup>3</sup> |
| Melt flow rate (MFR) (230°C/2.16Kg)                 | ISO 1133      | 2.0   | g/10 min          |
| <b>Mechanical</b>                                   |               |       |                   |
| Tensile Stress at Break                             | ISO 527-1, -2 | 23    | N/mm <sup>2</sup> |
| Tensile Stress at Yield (50 mm/min)                 | ISO 527-1, -2 | 34    | N/mm <sup>2</sup> |
| 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/mm <sup>2</sup> |
| <b>Hardness</b>                                     |               |       |                   |
| Shore hardness (Shore D)                            | ISO 868       | 71    |                   |
| <b>Thermal</b>                                      |               |       |                   |
| 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/mm<sup>2</sup>

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.