



# Jampilen HP550J

## Homopolymer

JAMPILen Polypropylene

### Description:

"Jampilen HP550J" is a polypropylene homopolymer particularly suitable for the extrusion of sheet for thermoforming, film yarn and monofilament. This grade combines outstanding processability with good mechanical properties.

"Jampilen HP550J" is designed for the production of films that can be converted into stretched tapes for weaving applications. Textile film yarns with a denier count of not more than 1100 to 1200 are used for the production of carpet backings, bags, industrial fabrics, mats and artificial grass. Film yarn with a denier count ranging from 3000 to 28000 is used for baler twines, packaging twines and ropes.

"Jampilen HP550J" is suitable for food contact.

### Processing Method:

Extrusion (film yarn, monofilament, sheet)  
Thermoforming

### Features:

Good processability  
Good mechanical properties  
Homopolymer

### Typical Applications:

Stiff sheet for high quality thermoformings such as vending cups, packaging for dairy products and trays for fruit, biscuits and chocolates  
Film yarn, raffia, tapes, strapping  
Carpet backings, bags, industrial fabrics, mats and artificial grass  
Baler twines, packaging twines and ropes  
Brush and broom filling and technical applications  
Nets for various purposes

### Approval:

Food

| TYPICAL PROPERTIES                       | VALUE | UNIT              | METHOD     |
|--|-------|-------------------|------------|
| <b>Physical</b>                          |       |                   |            |
| Melt Flow Rate (230 °C, 2.16kg)          | 3.2   | g/10min           | ASTM D1238 |
| Density                                  | 0.9   | g/cm <sup>3</sup> | ASTM D1505 |
| <b>Mechanical</b>                        |       |                   |            |
| Flexural Modulus                         | 1550  | MPa               | ASTM D790  |
| Tensile Strength at Yield                | 35    | MPa               | ASTM D638  |
| Tensile Elongation at Yield              | 12    | %                 | ASTM D638  |
| Izod Impact Strength (notched) at 23 °C  | 55    | J/m               | ASTM D256  |
| Rockwell Hardness                        | 102   | R Scale           | ASTM D785  |
| <b>Thermal</b>                           |       |                   |            |
| Vicat softening point (10N)              | 156   | °C                | ASTM D1525 |
| H.D.T. (0.46 Mpa)                        | 94    | °C                | ASTM D648  |
| Accelerated oven ageing in air at 150 °C | 360   | hours             | ASTM D3012 |

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