

HP554P

Homopolymer

Description:

HP554P is a high Fluidity polypropylene homopolymer for the production of fine denier staple fiber with improved thermo-bonding ability for nonwoven fabrics. The product exhibits excellent antigasfading properties. HP552 offers outstanding process stability and spinning behavior on short-spinning lines and some specific long-spinning lines. The thermal-bonding ability is high and allows the production of nonwoven fabrics with higher tear strength or with lower weight per m² for the same strength. The fabrics made with Jampilen are characterized by softness, textile-like appearance and tear resistance. The typical applications are overstock for diapers, feminine care products, thermo-bonded nonwoven and incontinence pads. Other applications are wipes, filters and fabrics for the clothing and furniture industry.

Typical Applications

- Nonwoven staple fibers
- Overstock for diapers
- Feminine care products
- Incontinence pads
- Filters and fabrics for the clothing and furniture industry
- Fine denier filaments for Carpet face yarn
- Multifilament yarns

Features: Good spinnability, High thermobonding properties, Excellent antigasfading properties
 High tear resistance, Good heat seal

Suitable for: Fiber Extrusion (CF, Staple)

Product Specification

| PHYSICAL/MECHANICAL PROPERTIES | VALUE* | UNIT | TEST METHOD |
|--|--------|-------------------|-------------|
| Melt Flow Rate (230 °C, 2.16 kg) | 18 | g/10 min | ASTM D1238 |
| Density | 0.9 | g/cm ³ | ASTM D1505 |
| Flexural Modulus | 1550 | MPa | ASTM D790 |
| Tensile Strength at Yield | 33 | MPa | ASTM D638 |
| Tensile Elongation at Yield | 12 | % | ASTM D638 |
| Izod Impact Strength (notched) at 23 °C | 30 | J/m | ASTM D256 |
| Rockwell Hardness | 102 | R Scale | ASTM D785 |
| Vicat softening point (10 N) | 154 | °C | ASTM D1525 |
| H.D.T. (0.46 MPa) | 95 | °C | ASTM D648 |
| Accelerated oven ageing in air at 150 °C | 120 | h | ASTM D3012 |

* Typical values; not to be considered as product specification.