



### NAME: P-YI-180 Homopolymer

#### Product Description:

"Polynar P-YI-180" is a high fluidity polypropylene homopolymer for the production of staple fibers with improved thermo-bonding ability for nonwoven fabrics.

"Polynar P-YI-180" offers outstanding process-ability & spinning behavior on short-spinning lines & some specific long-spinning lines. The thermal-bonding ability of P-YI-180 is high & allows the production of nonwoven fabrics with higher tear strength or with a lower weight per m2 for the same strength. "Polynar P-YI-180" are characterized by softness, textile like appearance and tear resistance.

"Polynar P-YI-180" is suitable for food contact.

#### Typical Applications:

Nonwoven staple fibers, over stock for diapers, Incontinence pads, Filters and fabrics for the clothing and furniture industry, Fine denier filaments for carpet face yarn, Multifilament yarns.

#### Typical data: (Table)

| Test/Composition                       | Value | Unit   | Method     |
|--|-------|--------|------------|
| Melt flow rate(230°C /2.16 kg)         | 18    | dg/min | ASTMD1238  |
| Density                                | 0.9   | g/cm3  | ASTMD 1505 |
| Flexural Modulus                       | 1550  | MPa    | ASTMD790   |
| Tensile Strength at Yield              | 33    | MPa    | ASTM D 638 |
| Tensile Elongation at Yield            | 12    | %      | ASTM D638  |
| Izod Impact Strength (notched) at 23°C | 36    | J/m    | ASTM D256  |
| Vicat softening point (ION)            | 154   | °C     | ASTMD 1525 |
| H.D.T (0.46 MPa)                       | 95    | °C     | ASTM D 648 |

Main Application: Fiber extrusion (CF, Staple) Product Type: Homo polymer