

**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 m<sup>2</sup> 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/cm <sup>3</sup>	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