



P-YI-180

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 behaviour 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.

Processing Method

Fiber extrusion (CF, Staple)

Features

homopolymer

good spinnability

high thermobonding properties

high tear resistance

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

Producer

Polynar Petrochemical Company

Typical Properties	Value	Unit	Method
Physical			
Melt Flow Rate (230 oC, 2.16kg)	17.20	g/10min	ASTM D1238
Density	0.90	g/cm ³	ASTM D1505
Mechanical			
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 oC	30	J/m	ASTM D256
Thermal			
Vicat softening point (10N)	154	° C	ASTM D1525
H.D.T. (0.46 Mpa)	95	° C	ASTM D648

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