



P-YI-180 Homopolymer

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

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 °C, 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 °C	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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