



P-YI-300 Homopolymer

Description

"**Polynar P-YI-250**" is a high melt flow homo-polymer polypropylene for the production of CF, BCF and fine denier staple fibers at medium to high spinning speeds and exhibits excellent antigasfading properties. "**Polynar P-YI-250**" offers a high homogeneity, stable extrusion and excellent processability on both short and long spinning lines. This grade allows a high stretch ratio and gives tough and resilient fibers.

"**Polynar P-YI-250**" is suitable for nonwoven fabrics for diapers, medical-sanitary applications, surgical garments, geotextiles and wipes. Another typical application is high tenacity continuous filament for straps for backpacks, sport bags, bulk bags and handles for big and safety belts. Continuous filament with medium tenacity is used for upholstery and sportswear and heavy duty clothing.

"**Polynar P-YI-250**" is also suited for the production of bulked continuous filament for thermo bonding and carpets. "**Polynar P-YI-250**" is suitable for food contact.

Processing Method

Injection Moulding

Extrusion (BCF-CF)

Features

Homopolymer , , high process stability

Excellent processability .

Typical Applications

polynar P-YI-300 is widely used for thin-walled packaging in the cosmetic & food industry.

Polynar P-YI-300 is recommended for high speed melt spinning processes and multifilament yarns like bulk continuous filament (BCF) and continuous filament (CF) fibres.

Producer

Polynar Petrochemical Company

Typical Properties	Value	Unit	Method
Physical			
Melt Flow Rate (230 oC, 2.16kg)	30	g/10min	ASTM D1238
Density	0.90	g/cm ³	ASTM D1505
Mechanical			
Flexural Modulus	1500	MPa	ASTM D790
Tensile Strength at Yield	32	MPa	ASTM D638
Tensile Elongation at Yield	13	%	ASTM D638
Izod Impact Strength (notched) at 23 oC	30	J/m	ASTM D256
Thermal			
Vicat softening point (10N)	152	° C	ASTM D1525
H.D.T. (0.46 Mpa)	94	° C	ASTM D648

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