



### P-YI-250 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:

Fiber Extrusion (CF, BCF, staple)

#### Features:

High melt flow  
Excellent antigasfading properties  
Good processability  
Homopolymer

#### Typical Applications:

Nonwoven fabrics for surgical garments, geotextiles, diapers, medical-sanitary applications  
Wipes and tissues  
Straps for backpacks, sport bags, bulk bags and for safety belts  
Upholstery and sportswear  
Bulk continuous filament for carpets  
Nonwoven staple fiber  
Hygiene nonwoven

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
<b>Physical</b>			
Melt Flow Rate (230 °C, 2.16kg)	25	g/10min	ASTM D1238
Density	0.908	g/cm <sup>3</sup>	ASTM D1505
<b>Mechanical</b>			
Flexural Modulus	1498	MPa	ASTM D790
Tensile Strength at Yield	33.86	MPa	ASTM D638
Tensile Elongation at Yield	6.93	%	ASTM D638
Izod Impact Strength (notched) at 23 °C	20.4	J/m	ASTM D256
<b>Thermal</b>			
Vicat softening point (10N)	157	°C	ASTM D1525
H.D.T. (0.46 Mpa)	88.4	°C	ASTM D648

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