



## 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, 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

**Producer**

Polynar Petrochemical Company

Typical Properties	Value	Unit	Method
<b>Physical</b>			
Melt Flow Rate (230 oC, 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 oC	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