

## NAME: P-YI-250 Homopolymer

### Product 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 process ability 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.

### Applications:

Fiber Extrusion (CF, BCF, staple), High melt flow, Excellent antigasfading properties Good process ability Homopolymer, 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 data: (Table)

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 °C, 2.16kg)	25	g/10min	ASTM D1238
Density	0.908	g/cm <sup>3</sup>	ASTM D1505
Mechanical			
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
Thermal			
Vicat softening point (10N)	157	°C	ASTM D1525
H.D.T. (0.46 Mpa)	88.4	°C	ASTM D648