



P-YI-350 Homopolymer

Description

"Polynar P-YI-350" is a very high fluidity homopolymer for the high speed production of very low denier BCF and CF. "Polynar P-YI-350" exhibits excellent antigasfading properties and due to its high homogeneity and very high MFR.

"Polynar P-YI-350" offers stable extrusion and excellent processability on both short and long spinning lines. This grade allows a high stretch ratio and gives tough, resilient and colorfast fibers.

"Polynar P-YI-350" is eminently used for the high speed production of bulked continuous filament for carpet face yarn. Another major application is the production of high tenacity continuous filament for straps for backpacks, handles for bigbags and safety belts. Continuous filament with medium tenacity is used for upholstery and heavy duty clothing. "Polynar P-YI-350" is suitable for food contact.

Processing Method

Extrusion (BCF-CF)

Features

High process stability

Excellent processability

Homopolymer

Excellent antigasfading properties

Typical Applications

BCF for carpet face yarns

High tenacity CF for straps for backpacks, handles for bigbags and safety belts, upholstery and heavy duty clothing

Producer

Polynar Petrochemical Company

Typical Properties	Value	Unit	Method
Physical			
Melt Flow Rate (230 °C, 2.16kg)	35	g/10min	ASTM D1238
Density	0.90	g/cm ³	ASTM D1505
Mechanical			

Flexural Modulus	1450	MPa	ASTM D790
Tensile Strength at Yield	32	MPa	ASTM D638
Tensile Elongation at Yield	10	%	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