

HP502R

Homopolymer

General Description

HP502R is a high melt flow homopolymer for the production of low denier BCF, CF and staple fibers at medium to high spinning speeds. HP502R offers high homogeneity, stable extrusion and excellent processability on both short and long spinning lines. This grade allows high stretch ratio and gives tough and resilient fibers.

HP502R is widely used for the production of bulked continuous filament for carpet face yarns. Another major application is the production of high tenacity continuous filament for straps for backpacks, handles for big bags and safety belts. Continuous filament with medium tenacity is used for upholstery, sportswear and heavy duty clothing. HP502R is also suitable for the production of low denier staple fibres for the thermobonding. HP502R is suitable for food contact.

Features: High melt flow, Excellent anti-gasfading properties, Good processability, Homopolymer

Suitable for: Fiber Extrusion (BCF, CF, staple)

Typical Applications

- Bulked continuous filament for carpet face yarns
- High tenacity continuous filament for straps for backpacks
- Handles for big bags and safety belts
- Upholstery, sportswear and heavy duty clothing
- Low denier staple fibers for thermobonding

Product Specification

PROPERTIES	VALUE*	UNIT	TEST METHOD
Melt Flow Rate (230 °C, 2.16kg)	25	g/10 min	ASTM D1238
Density	0.9	g/cm ³	ASTM D1505
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 °C	30	J/m	ASTM D256
Rockwell Hardness	100	R Scale	ASTM D785
Vicat softening point (10 N)	152	°C	ASTM D1525
H.D.T. (0.46 Mpa)	94	°C	ASTM D648
Accelerated oven ageing in air at 150 °C	360	h	ASTM D3012

* Typical values; not to be considered as product specification.