

# Jampilen HP502R

## Homopolymer

### Description:

"Jampilen HP502R" is a high melt flow homopolymer for the production of low denier BCF, CF and staple fibers at medium to high spinning speeds. "Jampilen 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.

"Jampilen 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. "Jampilen HP502R" is also suitable for the production of low denier staple fibres for the thermobonding.

"Jampilen HP502R" is suitable for food contact.

### Processing Method:

Fiber Extrusion (BCF, CF, staple)

### Features:

High melt flow  
Excellent processability  
Stable processing  
Homopolymer

### 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

### Approval:

Food

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
<b>Physical</b>			
Melt Flow Rate (230 °C, 2.16kg)	25	g/10min	ASTM D1238
Density	0.9	g/cm <sup>3</sup>	ASTM D1505
<b>Mechanical</b>			
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
<b>Thermal</b>			
Vicat softening point (10N)	152	°C	ASTM D1525
H.D.T. (0.46 Mpa)	94	°C	ASTM D648
Accelerated oven ageing in air at 150 °C	360	hours	ASTM D3012