



## Z 30 S

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Z 30 S is a high melt flow homopolymer for the production of low denier BCF, CF and staple fibers at medium to high spinning speeds.

Z 30 S 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.

Z 30 S 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 dothing. Z 30 S is also suitable for the production of low denier staple fibres for thermobonding.



PROPERTIES	METHOD (b)	UNIT	TYPICAL VALUE (a)
<b>Physical properties</b>			
Melt flow rate (230°C, 2.16 kg)	ISO 1133	Dg / min	25
Density	ISO 1183	g/cm <sup>3</sup>	0.9
<b>Mechanical properties</b>			
Flexural modulus	ISO 178	N/mm <sup>2</sup>	1550
Tensile strength at yield	ISO R 527	N/mm <sup>2</sup>	35
Elongation at yield	ISO R 527	%	13
IZOD impact strength (notched) at 23°C	ISO 180	kJ/m <sup>2</sup>	3
Hardness Shore D	ISO 868	Points	72
<b>Thermal properties</b>			
Vicat softening point (9.8 N)	ISO 306/A	°C	155
H.D.T. (0.46 Mpa)	ISO 75/B	°C	118
Accelerated oven ageing in air (forced circulation) at 150°C	ISO 4577	hours	360

● Z 30 S is suitable for food contact.

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a) Values shown are averages and are not to be considered as product specification. These values may shift slightly as additional data are accumulated.

b) ISO test methods are the latest under the society's current procedures.

All specimens are prepared by injection moulding.



Arak Petrochemical Company



ISO 9001:2000  
Certificate No.: CH98/8032

ISO 14001:2004  
Certificate No.: CH03/0112

OHSAS 18001:1999  
Certificate No.: CH05/0675

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## Polypropylene

### Moplen Z30S (Fibre)

Typical properties	Test method (ASTM)	Unit	Value
MFR @230°C, 2.16 kg	D1238/L	gr/10min	25
Flexural Modulus	D790	Mpa	1500
Notched Izod Impact@23°C	D256	J/m	30
Tensile Strength@Yield	D638	Mpa	32
Elongation@Yield	D638	%	13
Vicat Softening Point,10N	D1525	°C	152
HDT(0.46N/mm <sup>2</sup> )	D648	°C	94
Rockwell Hardness	D785	R.Scale	100
Oven Aging@150°C	D3012	Hours	150

➤ Values shown are averages & are not to be considered as product specifications.

#### ❖ Main application & Characteristics:

Moplen Z30S is a high melt flow homo-polymer polypropylene for the production of CF, BCF and staple fibres at medium to high spinning speeds.

Moplen Z30S 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 fibres.

Moplen Z30S is suitable for low denier staple fibres for non-woven fabrics, diapers, medical-sanitary applications and wipes.

Another typical application is high tenacity continues filament for straps for backpacks, handles for big and safety belts.

Continues filament with medium tenacity is used for upholstery, sportswear and heavy duty clothing.

Moplen Z30S is also suited for the production of bulked continues filament for thermo bonding and carpets.

\* Moplen Z30S is suitable for food contact.

# Jampilen Z30S

## Homopolymer

JAMPILEN POLYPROPYLENE

### Description:

"Jampilen Z30S" is a high melt flow homopolymer for the production of low denier BCF, CF and staple fibers at medium to high spinning speeds. "Jampilen Z30S" 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.

"Jampilen Z30S" 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 Z30S" is also suitable for the production of low denier staple fibres for the thermobonding. "Jampilen Z30S" is suitable for food contact.

### Processing Method:

Extrusion ( BCF, CF and staple fibers )

### Features:

High melt flow  
Excellent processability  
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 fibres for the thermobonding

### Approval:

Food

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
<b>Physical</b>			
Melt Flow Rate (230 °C, 2.16kg)	25	g/10min	ISO 1133
Density	0.9	g/cm <sup>3</sup>	ISO 1183
<b>Mechanical</b>			
Flexural Modulus	1550	N/mm <sup>2</sup>	ISO 178
Tensile Strength at Yield	35	N/mm <sup>2</sup>	ISO R 527
Tensile Elongation at Yield	13	%	ISO R 527
Izod Impact Strength (notched) at 23 °C	3	kJ/m <sup>2</sup>	ISO 180
Hardness Shore D	72	points	ISO 868
<b>Thermal</b>			
Vicat softening point (9.8N)	155	°C	ISO 306/A
H.D.T. (0.46 Mpa)	118	°C	ISO 75/B
Accelerated oven ageing in air at 150 °C	360	hours	ISO 4577