

# Moplen Z30S

Polypropylene Homopolymer  
Shazand (Arak) Petrochemical Corporation

Message:

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 processability 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.

General Information			
Features	Food Contact Acceptable		
	Good Processability		
	Good Stretchability		
	Good Toughness		
	High Flow		
	Homopolymer		
	Resilient		
Uses	Belts/Belt Repair		
	Carpet Backing		
	Fabrics		
	Fibers		
	Filaments		
	Nonwovens		
	Sanitary Products		
	Staple Fibers		
Strapping			
Processing Method			
Filament Extrusion			
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	25	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	32.0	MPa	ASTM D638
Tensile Elongation (Yield)	13	%	ASTM D638
Flexural Modulus	1500	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method


Notched Izod Impact (23°C)	30	J/m	ASTM D256
Aging	Nominal Value	Unit	Test Method
Oven Aging (150°C)	6.3	day	ASTM D3012
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	94.0	°C	ASTM D648
Vicat Softening Temperature	152	°C	ASTM D1525 <sup>1</sup>
NOTE			
1.	Loading 1 (10 N)		

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