

Moplen S81S

Polypropylene Homopolymer
Shazand (Arak) Petrochemical Corporation

Message:

Moplen S81S is a polypropylene homo-polymer particularly suitable for the production of textile film yarn and monofilament (not food grade). Moplen S81S combines excellent process ability with high mechanical properties and very high light resistance. Moplen S81S is particularly suitable to produce film yarn, both with cast and tubular processes. Textile film yarns have a denier count of not more than 1000 to 1200 and are used for the production of the bags, industrial fabrics & mats. Film yarn with a denier count ranging 3000 to 28000 is used for baler twines, twines for agricultural use, ropes. * Moplen S81S S is also well suited for the production of monofilament used for instance for brush & broom filling & technical applications. Strapping, extruded nets, blow moulded small containers & technical components are other typical applications.

General Information			
Features	Good Processability		
	Good UV Resistance		
	Homopolymer		
Uses	Agricultural Applications		
	Bags		
	Blown Containers		
	Cast Film		
	Fabrics		
	Fibers		
	Filaments		
	Monofilaments		
	Netting		
	Rope		
	Strapping		
	Yarn		
Processing Method	Filament Extrusion		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.8	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	36.0	MPa	ASTM D638
Tensile Elongation (Yield)	12	%	ASTM D638
Flexural Modulus	1450	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	60	J/m	ASTM D256
Aging	Nominal Value	Unit	Test Method
Oven Aging (150°C)	15.0	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 ¹
NOTE			
1.	Loading 1 (10 N)		

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