

Moplen HP510L

Polypropylene Homopolymer
Shazand (Arak) Petrochemical Corporation

Message:

Moplen HP510L is a polypropylene homo-polymer with good flow properties and is particularly suitable for the extrusion of film yarn, monofilaments, cast film and sheet. Moplen HP510L combines outstanding process ability with good mechanical properties. Moplen HP510L is particularly suitable to produce film yarn with the cast film process .Film yarn of Moplen HP510L is suitable for baler twins, packaging twins and ropes. Moplen HP510L is well suited for the production of monofilament used for instance in brush and broom filling and technical applications. Other applications of Moplen HP510L are monolayer or co-extruded film for packaging, thin sheet for stationary folders and sheets for thermoforming. Moplen HP510L is also used for the extrusion of straws.

* Moplen HP510L is suitable for food contact.

General Information	
Features	Food Contact Acceptable
	Good Flow
	Good Processability
	Homopolymer
Uses	Drinking Straws
	Fibers
	Film
	Monofilaments
	Rope
	Sheet
	Stationary Supplies
	Thin-walled Packaging
Processing Method	Yarn
	Coextruded Film
	Extrusion
	Fiber (Spinning) Extrusion
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0	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)	35.0	MPa	ASTM D638
Tensile Elongation (Yield)	12	%	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)	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	154	°C	ASTM D1525 ¹
NOTE			

1. Loading 1 (10 N)

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