

EL-Pro™ P400S

Polypropylene Homopolymer

SCG Chemicals Co., Ltd.

Message:

EL-Pro P400S is a homopolymer polypropylene resin which is suitable for monofilaments and flat yarn products. Which is manufactured by extrusion process with spinnerette die, annular die, T-die, coathanger die, etc.

General Information	
Features	Homopolymer
	Fast molding cycle
	Compliance of Food Exposure
Uses	Strap
	Bags
	Monochrome high toughness line
	monofilament
	Belt material
	Sheet
	Rope
	Line
Agency Ratings	FDA 21 CFR 177.1520
Forms	Particle
Processing Method	Extrusion
	Filament extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.910	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.5	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 25% Igepal, injection molding, F50)	> 500	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	85		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength - Across Flow ¹			ASTM D638
Yield	31.4	MPa	ASTM D638
Fracture	24.5	MPa	ASTM D638
Tensile Elongation (Break)	650	%	ASTM D638
Flexural Modulus	1320	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			ASTM D256
-20°C	17	J/m	ASTM D256
0°C	25	J/m	ASTM D256
23°C	39	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	110	°C	ASTM D648
1.8 MPa, not annealed	60.0	°C	ASTM D648
Vicat Softening Temperature	155	°C	ASTM D1525
Melting Temperature	163	°C	ASTM D2117
Optical	Nominal Value	Unit	Test Method
Gloss	65		ASTM D2457
Haze	50	%	ASTM D1003
Additional Information			
Monofilament Processing -Melt temperature range: 250 to 280°CStretching Temperature: 95 to 110°CStretching Ratio: 8 to 12Flat yarn Processing -Melt temperature range: 220 to 270°CStretching Temperature: 120 to 140°CStretching Ratio: 5 to 7			
NOTE			

1. 50 mm/min

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