

# EL-Lene™ H5480S

High Density Polyethylene

SCG Chemicals Co., Ltd.

## Message:

EL-Lene H5480S is a high density polyethylene resin which is suitable for producing monofilament or flat yarn products. It is manufactured by extrusion process with spinnerette die, T-die, annular die, coathanger die, etc.

General Information			
Features	High tensile strength		
	Good coloring		
	Compliance of Food Exposure		
Uses	Monochrome high toughness line		
	monofilament		
	Rope		
	Web		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Filament extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.954	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.80	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 25% Igepal, Compression Molded, F50)	30.0	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	65		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>			ASTM D638
Yield	26.5	MPa	ASTM D638
Fracture	38.2	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	1200	%	ASTM D638
Flexural Modulus	981	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
0°C	140	J/m	ASTM D256
23°C	170	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -60.0	°C	ASTM D746

Vicat Softening Temperature	126	°C	ASTM D1525
Melting Temperature	131	°C	ASTM D2117

Extrusion instructions

Monofilament Processing-Melt temperature range: 250 to 280°CStretching Temperature: 96 to 100°CStretching Ratio: 8 to 12Flat yarn Processing -Melt temperature range: 190 to 260°CStretching Temperature: 100 to 130°CStretching Ratio: 5 to 7

NOTE

- |    |           |
|----|-----------|
| 1. | 50 mm/min |
| 2. | 50 mm/min |

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