



# SCLAIR® FP026-F02 Resin

## Octene Copolymer LMDPE Film Resin

Property	ASTM <sup>(1)</sup>	Units	Typical Values <sup>(2)</sup>	
Melt Index <sup>(3)</sup>	D 1238	g/10 min	0.8 g/10 min	
Density	D 792	g/cm <sup>3</sup>	0.926 g/cm <sup>3</sup>	
<b>Film Properties<sup>(4)</sup></b>			<b>1 mil</b>	<b>3 mil</b>
Thickness		µm (mil)	25 ( 1)	76.2 ( 3)
Tear Strength	MD D 1922	g	295	1,080
	TD	g	752	1,467
Dart Drop Impact, F <sub>50</sub>	D 1709/A	g	156	453
Low Friction Puncture <sup>(5)</sup>		J/mm (in-lb/mil)	25 ( 6)	20 ( 4)
Tensile Strength	MD D 882	MPa (psi)	42.5 (6 200)	41.2 (6 000)
	TD	MPa (psi)	33.1 (4 800)	35.2 (5 100)
Yield Strength	MD D 882	MPa (psi)	11 (1 600)	12 (1 800)
	TD	MPa (psi)	12 (1 800)	12 (1 800)
Elongation	MD D 882	% (%)	490	630
	TD	% (%)	710	680
1% Secant Modulus	MD D 882	MPa (psi)	234 (33 900)	230 (33 400)
	TD	MPa (psi)	251 (36 400)	260 (37 700)
Haze	D 1003	% (%)	14	17
Gloss @ 45°	D 2457		50	61

<b>Melt Index</b>	<b>0.8</b>
<b>Density</b>	<b>0.926</b>
<b>Slip</b>	<b>None</b>
<b>Antiblock</b>	<b>3500</b>

### Features

- Good stiffness
- Easy processability
- Moderate toughness and strength
- Excellent seal properties

### Additives

- Processing antioxidant
- Non-fluorinated PPA
- Antiblock

### Applications

- Heavy duty shipping sacks requiring moderate toughness and high stiffness
- Industrial packaging
- Industrial liners
- Construction film
- Automatic packaging film

(1) Properties designated have been determined using methods which are in accordance with, or substantially in accordance with, the specified testing standards.

(2) Typical Values represent average laboratory values and are intended as guides only, not as specifications.

(3) Condition 190°C/2.16 kg.

(4) Film properties are typical of blown film extruded on a 2.5" extruder with 4" die and 35-mil die gap at a blow up ratio of 2.5:1, but are dependent upon operating conditions.

(5) NOVA Chemicals test method.



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### Availability

SCLAIR FP026-F02 polyethylene resins are available in bulk hopper cars, hopper trucks, boxes, sea bulk containers, or bags. The product type and batch number are clearly marked on each container. Contact the NOVA Chemicals sales office nearest you for availability in your area.

### Storage/Handling

SCLAIR FP026-F02 resin should be stored in a clean, dry place at ambient temperatures. Prolonged or improper storage can result in deterioration of product properties. Care should be taken when handling and transferring product to prevent foreign matter contamination. The NOVA Chemicals Safety Data Sheet (SDS) contains important safety information and should be reviewed before using the product.

### Processing Conditions

Comprehensive assistance with processing conditions and technology is available from NOVA Chemicals Technical Service at (403) 291-8444.

### Food Packaging Status

United States: SCLAIR FP026-F02 resin complies with the specifications contained in the U.S. Food and Drug Administration (FDA) regulation 21 CFR 177.1520 for olefin polymers, para. (c) 3.2a, and may thus be used in the United States as an article or component of an article intended for use in contact with food, except for infant formula and human milk, under Conditions of Use A–H (21 CFR 176.170(c) Table 2).

Other Countries: For regulatory compliance information for other countries, please contact your nearest NOVA Chemicals office.

### Environmental

NOVA Chemicals polyethylene resins are biologically and chemically inert, but improper disposal may present an ingestion hazard to wildlife. Where recycling of NOVA Chemicals' polyethylene resins is not possible, disposal to landfill or incineration in accordance with all applicable government laws and regulations is recommended. Please contact NOVA Chemicals Technical Service for further information on recycling and disposal of NOVA Chemicals resins.



4 is the SPI resin code developed for low density and linear low density polyethylene to identify material type for sorting and recycling purposes.

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January 17, 2024