

Sumitomo PE FS253S

Linear Low Density Polyethylene

Sumitomo Chemical Asia

PROSPECTOR®

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Technical Data

Product Description

Applications For grocery bag, garment packaging, agriculture film, and other general purpose film applications.

Characteristics High strength film with excellent processability, high slip and antiblocking properties. For higher transparency, blending with LDPE is recommended.

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English)
Availability	• Asia Pacific • Europe
Additive	• High Antiblock • High Slip
Features	• Good Processability • High Clarity • High Antiblocking • High Slip • High Strength
Uses	• Agricultural Applications • Blending • Laundry Bags • Bags • Film • Packaging
Agency Ratings	• EU 2002/72/EC • EU 2004/19/EC • FDA 21 CFR 177.1520(c) 3.2a
Forms	• Pellets
Processing Method	• Blown Film

Physical	Nominal Value Unit	Test Method
Specific Gravity	0.922 g/cm ³	ASTM D792A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.2 g/10 min	ASTM D1238

Mechanical	Nominal Value Unit	Test Method
Coefficient of Friction		ASTM D1894
vs. Itself - Dynamic	0.080	
vs. Itself - Static	0.11	

Films	Nominal Value Unit	Test Method
Secant Modulus		ASTM D882
1% Secant, MD	205 MPa	
0.05% to 1.05%, TD	255 MPa	
Tensile Strength		ASTM D882
MD : Break	35.0 MPa	
TD : Break	30.0 MPa	
Tensile Elongation		ASTM D882
MD : Break	770 %	
TD : Break	930 %	
Dart Drop Impact	90 g	ASTM D1709
Elmendorf Tear Strength		ASTM D1922
MD	130 g	
TD	350 g	
Blocking Load	14 g	ASTM D3354

Thermal	Nominal Value Unit	Test Method
Melting Temperature	122 °C	DSC

Optical	Nominal Value Unit	Test Method
Gloss (45°)	55	ASTM D2457
Haze	15 %	ASTM D1003

Extrusion	Nominal Value Unit
Melt Temperature	160 to 200 °C

Extrusion Notes

Blow-up Ratio: 2 to 3



Notes

- ¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.
- ² Typical properties: these are not to be construed as specifications.



Where to Buy

Supplier

Sumitomo Chemical Asia
, Tokyo Singapore
Telephone: 65-6306-5188
Web: <http://www.sca.com.sg/>

Distributor

Nexeo Solutions - Europe

Nexeo Solutions is a Pan European distribution company. Contact Nexeo for availability of individual products by country.

Telephone: +34-93-480-9125
Web: <http://www.nexeosolutions.com/>
Availability: France

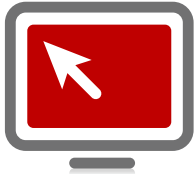
Plastribution

Telephone: +44-845-345-4560
Web: <http://www.plastribution.co.uk/>
Availability: United Kingdom



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– Kevin Chase, Owner & President, Chase Plastics



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