

GREENFLEX®

FL 55

EVA

Ethylene vinyl acetate copolymer

Greenflex FL 55 is an ethylene vinyl acetate copolymer (EVA) for extrusion/co-extrusion blown and cast film. Films produced with Greenflex FL 55 show a low fish eyes content, high elasticity, good optical properties, good sealability at low temperatures.

Main Application

Greenflex FL 55 is recommended for the production of co-extrusion film, lamination film, stretch film, barrier film for food packaging and for all those applications where the typical purity of film grades is required.

Main Properties

Resin Properties	Value	Unit	Test Method
Melt Flow Rate (190 °C/2,16 kg)	2,5	g/10min	ISO 1133
Vinyl acetate content	19	%	Internal method
Density	0,941	g/cm3	ISO 1183
Melting Point	85	°C	Internal method
Brittleness temperature	< -80	°C	ASTM D 746
Vicat softening point (1 kg)	58	°C	ISO 306/A

Film Properties *	Value	Unit	Test Method
Tensile stress at yield MD	4,5	MPa	ISO 527-3
Tensile stress at yield TD	4	MPa	ISO 527-3
Tensile stress at break MD	30	MPa	ISO 527-3
Tensile stress at break TD	27	MPa	ISO 527-3
Elongation at break MD	560	%	ISO 527-3
Elongation at break TD	750	%	ISO 527-3
1% Secant modulus MD	45	MPa	ISO 527-3
1% Secant modulus TD	53	MPa	ISO 527-3
Elmendorf tear resistance MD	20	N/mm	ISO 6383-2
Elmendorf tear resistance TD	50	N/mm	ISO 6383-2
Impact resistance F50 (Dart Drop Test)	420	g	ISO 7765-1/A
Dynamic coefficient of friction (COF)	> 0,5	-	ISO 8295
Haze	1,5	%	ISO 14782
Gloss, 45°	85	%	ASTM D 2457
Recommended film thickness	25 ÷ 80	micron	-

Mechanical Properties **	Value	Unit	Test Method
Shore A	89	Shore A	ISO 868 A
Shore D	36	Shore D	ISO 868 A



Processing notes

Greenflex FL 55 can be processed by conventional blown film extrusion equipments. Operation temperature from 150 °C to 170 °C is recommended. Depending on extrusion conditions, the suggested film thickness is from 25 to 80 µm.

Storage and Handling

Greenflex FL 55 is supplied in pellet form. This material may readily be conveyed and bulk fed through equipment designed for conventional pelletised polyethylene resin, provided the equipment is designed to prevent accumulation of the fines and dust particles that are contained in all polyethylene resins. These fines and dust particles can, under certain conditions, pose an explosion hazard. We recommend that the conveying system used be equipped with filters of adequate size, operated and maintained in such a manner to ensure that no leaks develop and earthed adequately. We further recommend that good housekeeping should be practised throughout your facility.

The product should be stored in dry conditions at temperatures below 50 °C and protected from sunlight. Improper storage can initiate degradation which results in odour generation, colour changes and can have negative effects on the physical properties of the product.

Before using this product it is recommended to read and understand the relevant Safety Data Sheet.

Availability

Contact the Versalis sales office nearest to you regarding availability and your specific application requirements.

Food Contact Status

Greenflex FL 55 complies with the rules and regulations of the European Union, as well as other countries, regarding the use of plastic materials in food contact applications. Certificates of compliance are available upon request.

