

Technical data sheet

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GREENFLEX®

FL 55 F

EVA

Ethylene vinyl acetate copolymer

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

Main Application

Greenflex FL 55 F is recommended for the production of co-extrusion film, lamination film, stretch film, barrier film for food packaging and 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
ShoreA:	89	Shore A	ISO 868 A
ShoreD:	36	Shore D	ISO 868 A

(*) Film properties are typical of a blown film extruded at 160 °C. Actual properties may vary depending upon operating conditions and additive package.

(**) Values are referred to injection moulded specimens. Actual properties are typical and may vary depending upon operating conditions.