Refining & Chemicals
Polymers

Technical data sheet
Ethylene Vinyl Acetate Copolymer BLOWN FILM
Produced in Europe

Description

EVA 1005 VN 5 is made by a high pressure tubular process.
Grade for films with high transparency and good mechanical properties.
Application examples : Coextrusion, stretch film, paper-stationary, geomembrane, stretch hood

Characteristics

Property	Method	Unit	Typical value
Melt Flow Rate (190°C/2.16 kg)	ISO 1133	g/10 min	0.75
VA Content	Total Petrochemicals	%	17
Melting temperature	ISO 11357	°C	89
Vicat temperature	ISO 306	°C	69
Elasticity Modulus	ISO 527-2	MPa	56
Density	ISO 1183	g/cm³	0.940

Values indicated are typical for this product. VA Content and MFR are properties routinely measured during "the standard quality control procedure". The other figures are generated by tests not included in the "standard quality control procedure", and are given for information only. Data are not intended for specification purposes.

Additives

Antioxidant: Yes

Processing

Advised temperature profile: 150 to 180°C.
The possible range of film thickness is 25 to 300 µm, depending on extrusion conditions.

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Blown film properties

These values have been measured on a 40 µm blown film.

Property	Method	Unit	Typical value (*)
Tensile Strength at Yield MD/TD	ISO 527-3	MPa	6.3/4.5
Tensile Strength at Break MD/TD	ISO 527-3	MPa	38/39
Elongation at Break MD/TD	ISO 527-3	%	320/660
Elmendorf MD/TD	ISO 6383-2	N/mm	18/40
Dart test	ISO 7765-1	g	680
Haze	ISO 14782	%	2

(*) Figures stated hereabove are obtained using laboratory test specimens produced with the following extrusion conditions: 45 mm screw diameter, L/D = 30, die diameter = 120 mm, die gap = 1.4 mm, BUR = 2.5:1, temperature = 170°C

Handling and storage

Please refer to the safety data sheet (SDS) for handling and storage information. It is advisable to convert the product within one year after delivery provided storage conditions are used as given in the SDS of our product. SDS may be obtained from the website:

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