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Refining & Chemicals  
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## Polyethylene EVA 1005 VN 2

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

### Description

EVA 1005 VN 2 is made by a high pressure tubular process.  
Grade for transparent and resistant films.

Application examples : Stretch, coextrusion, frozen food, agricultural film.

### Characteristics

| Property                       | Method        | Unit              | Typical value |
|--------------------------------|---------------|-------------------|---------------|
| Melt Flow Rate (190°C/2.16 kg) | ISO 1133      | g/10 min          | 0.5           |
| VA Content                     | TotalEnergies | %                 | 5.5           |
| Melting temperature            | ISO 11357     | °C                | 104           |
| Vicat temperature              | ISO 306       | °C                | 90            |
| Elasticity Modulus             | ISO 527-2     | MPa               | 160           |
| Density                        | ISO 1183      | g/cm <sup>3</sup> | 0.925         |

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.

Polyethylene

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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  | 9.5/8.5           |
| Tensile Strength at Break MD/TD | ISO 527-3  | Mpa  | 32/27             |
| Elongation at Break MD/TD       | ISO 527-3  | %    | 300/570           |
| Elmendorf MD/TD                 | ISO 6383-2 | N/mm | 34/33             |
| Dart test                       | ISO 7765-1 | G    | 340               |
| Haze                            | ISO 14782  | %    | 8.8               |

(\*) 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 = 180° 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: [www.polymers.totalenergies.com](http://www.polymers.totalenergies.com).

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