

Description

EVA 1040 VN 4 is made by a high pressure tubular process.

Grade for very flexible films with high transparency and good mechanical properties.

Application examples : thin stretch film for food packaging, coextrusion, cling film.

Characteristics

Property	Method	Unit	Typical value (*)
Melt Flow Rate (190°C/2.16 kg)	ISO 1133	g/10 min	4.5
VA Content	Total Petrochemicals	%	14
Melting temperature	ISO 11357	°C	90
Vicat temperature	ISO 306	°C	68
Elasticity Modulus	ISO 527-2	MPa	62
Density	ISO 1183	g/cm ³	0.935

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: 140 to 170°C.

The possible range of film thickness is 15 to 100 µm, depending on extrusion conditions.

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	6.5/4.9
Tensile Strength at Break MD/TD	ISO 527-3	MPa	27/23
Elongation at Break MD/TD	ISO 527-3	%	370/650
Elmendorf MD/TD	ISO 6383-2	N/mm	36/44
Dart test	ISO 7765-1	g	300
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.