

## Total EVA 1003 VN 4 Ethylene Vinyl Acetate Copolymer - Blown Film

Category : Polymer , Film , Thermoplastic , Ethylene Vinyl Acetate , Ethylene Vinyl Acetate Copolymer (EVA), Film Grade

### Material Notes:

EVA 1003 VN 4 is made by a high pressure tubular process. Grade for flexible films with very high transparency and outstanding mechanical properties. Contains an antioxidant. Application examples: High strength stretch film, greenhouse film, film for food packaging (coextrusion), stretch hood. Information provided by Total Petrochemicals.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Total-EVA-1003-VN-4-Ethylene-Vinyl-Acetate-Copolymer-Blown-Film.php](http://www.lookpolymers.com/polymer_Total-EVA-1003-VN-4-Ethylene-Vinyl-Acetate-Copolymer-Blown-Film.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.935 g/cc	0.935 g/cc	ISO 1183
Vinyl Acetate Content	13.5 %	13.5 %	
Thickness	40.0 microns	1.57 mil	for samples tested on this data sheet
	30.0 - 300 microns	1.18 - 11.8 mil	possible range, depending on extrusion conditions
Melt Flow	0.40 g/10 min	0.40 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	6.50 MPa	943 psi	ISO 527-3
Film Tensile Strength at Yield, TD	5.00 MPa	725 psi	ISO 527-3
Film Elongation at Break, MD	310 %	310 %	ISO 527-3
Film Elongation at Break, TD	590 %	590 %	ISO 527-3
Modulus of Elasticity	0.0700 GPa	10.2 ksi	ISO 527-2
Elmendorf Tear Strength, MD	1.30 g/micron	33.0 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	2.90 g/micron	73.7 g/mil	ISO 6383-2
Dart Drop Test	650 g	1.43 lb	ISO 7765-1
Film Tensile Strength at Break, MD	38.0 MPa	5510 psi	ISO 527-3
Film Tensile Strength at Break, TD	38.0 MPa	5510 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	92.0 °C	198 °F	ISO 11357

Thermal Properties	Metric	English	Comments
	74.0 °C	165 °F	ISO 527

  

Optical Properties	Metric	English	Comments
Haze	2.5 %	2.5 %	ISO 14782

  

Processing Properties	Metric	English	Comments
Processing Temperature	150 - 180 °C	302 - 356 °F	

## Contact Songhan Plastic Technology Co.,Ltd.

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