

Total EVA 1005 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 1005 VN 4 is made by a high pressure tubular process. Grade for flexible films with high transparency and good mechanical properties. Contains an antioxidant. Application examples: High strength stretch film, coextrusion, greenhouse film, stretch hood. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-EVA-1005-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	14 %	14 %	
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	0.75 g/10 min @Load 2.16 kg, Temperature 190 °C	0.75 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

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	320 %	320 %	ISO 527-3
Film Elongation at Break, TD	610 %	610 %	ISO 527-3
Modulus of Elasticity	0.0650 GPa	9.43 ksi	ISO 527-2
Elmendorf Tear Strength, MD	1.80 g/micron	45.7 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	3.10 g/micron	78.7 g/mil	ISO 6383-2
Dart Drop Test	600 g	1.32 lb	ISO 7765-1
Film Tensile Strength at Break, MD	36.0 MPa	5220 psi	ISO 527-3
Film Tensile Strength at Break, TD	35.0 MPa	5080 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	91.0 °C	196 °F	ISO 11357

Thermal Properties	Metric	English	Comments
	72.8 °C	163.1 °F	ISO 6896
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	

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