

Total EVA 1005 VN 2 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 2 is made by a high pressure tubular process. Grade for transparent and resistant films. Contains an antioxidant. Application examples: Stretch, coextrusion, frozen food, agriculture film. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-EVA-1005-VN-2-Ethylene-Vinyl-Acetate-Copolymer-Blown-Film.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.925 g/cc	0.925 g/cc	ISO 1183
Vinyl Acetate Content	5.5 %	5.5 %	
Thickness	40.0 microns	1.57 mil	for samples tested on this data sheet
	45.0 - 300 microns	1.77 - 11.8 mil	possible range, depending on extrusion conditions
Melt Flow	0.50 g/10 min	0.50 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	9.50 MPa	1380 psi	ISO 527-3
Film Tensile Strength at Yield, TD	8.50 MPa	1230 psi	ISO 527-3
Film Elongation at Break, MD	300 %	300 %	ISO 527-3
Film Elongation at Break, TD	570 %	570 %	ISO 527-3
Modulus of Elasticity	0.160 GPa	23.2 ksi	ISO 527-2
Elmendorf Tear Strength, MD	3.50 g/micron	88.9 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	3.40 g/micron	86.4 g/mil	ISO 6383-2
Dart Drop Test	340 g	0.750 lb	ISO 7765-1
Film Tensile Strength at Break, MD	32.0 MPa	4640 psi	ISO 527-3
Film Tensile Strength at Break, TD	27.0 MPa	3920 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	104 °C	219 °F	ISO 11357
Vicat Softening Point	90.0 °C	194 °F	ISO 306

Thermal Properties	Metric	English	Comments
Optical Properties	Metric	English	Comments
Haze	8.8 %	8.8 %	ISO 14782
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Processing Properties	Metric	English	Comments
Processing Temperature	160 - 190 °C	320 - 374 °F	

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