

Total EVA 1005 VN 35 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 35 is made by a high pressure tubular process. Grade for flexible films, with high transparency and outstanding mechanical properties. Contains NO antioxidant. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-EVA-1005-VN-35-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	12 %	12 %	
Thickness	40.0 microns	1.57 mil	for samples tested on this data sheet
	30.0 - 200 microns	1.18 - 7.87 mil	possible range, depending on extrusion conditions
Melt Flow	0.50 g/10 min @Load 2.16 kg, Temperature 190 °C	0.50 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	6.40 MPa	928 psi	ISO 527-3
Film Tensile Strength at Yield, TD	5.60 MPa	812 psi	ISO 527-3
Film Elongation at Break, MD	380 %	380 %	ISO 527-3
Film Elongation at Break, TD	650 %	650 %	ISO 527-3
Modulus of Elasticity	0.0700 GPa	10.2 ksi	ISO 527-2
Elmendorf Tear Strength, MD	1.50 g/micron	38.1 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	2.00 g/micron	50.8 g/mil	ISO 6383-2
Dart Drop Test	630 g	1.39 lb	ISO 7765-1
Film Tensile Strength at Break, MD	39.0 MPa	5660 psi	ISO 527-3
Film Tensile Strength at Break, TD	37.0 MPa	5370 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	91.0 °C	196 °F	ISO 11357
Vicat Softening Point	72.0 °C	162 °F	ISO 306

Thermal Properties	Metric	English	Comments
Optical Properties	Metric	English	Comments
Haze	4.4 %	4.4 %	ISO 14782

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

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