

Total EVA 1020 VN 3 Ethylene Vinyl Acetate Copolymer - Blown Film

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

Material Notes:

EVA 1020 VN 3 is made by a high pressure tubular process. Grade for flexible, very transparent films with high strength and very good sealability. Contains an antioxidant. Application examples: Thin shrink film for food packaging (coextrusion, lamination...), stretch film. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-EVA-1020-VN-3-Ethylene-Vinyl-Acetate-Copolymer-Blown-Film.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.929 g/cc	0.929 g/cc	ISO 1183
Vinyl Acetate Content	9.0 %	9.0 %	
Thickness	40.0 microns	1.57 mil	for samples tested on this data sheet
	20.0 - 100 microns	0.787 - 3.94 mil	possible range, depending on extrusion conditions
Melt Flow	3.0 g/10 min @Load 2.16 kg, Temperature 190 °C	3.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	7.80 MPa	1130 psi	ISO 527-3
Film Tensile Strength at Yield, TD	6.50 MPa	943 psi	ISO 527-3
Film Elongation at Break, MD	380 %	380 %	ISO 527-3
Film Elongation at Break, TD	570 %	570 %	ISO 527-3
Modulus of Elasticity	0.100 GPa	14.5 ksi	ISO 527-2
Elmendorf Tear Strength, MD	3.10 g/micron	78.7 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	3.60 g/micron	91.4 g/mil	ISO 6383-2
Dart Drop Test	400 g	0.882 lb	ISO 7765-1
Film Tensile Strength at Break, MD	29.0 MPa	4210 psi	ISO 527-3
Film Tensile Strength at Break, TD	24.0 MPa	3480 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	97.0 °C	207 °F	ISO 11357

Thermal Properties	Metric	English	Comments
	78.0 °C	174.4 °F	ISO 6933
Optical Properties	Metric	English	Comments
Haze	3.5 %	3.5 %	ISO 14782
Transmission, Visible	90 %	90 %	transparent; thickness not quantified
Processing Properties	Metric	English	Comments
Processing Temperature	150 - 180 °C	302 - 356 °F	

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