

Total EVA 1020 VN 5 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 5 is made by a high pressure tubular process. Grade for very flexible films with very high transparency and good mechanical properties. Contains an antioxidant. Application examples: Chemicals bags, coextrusion films. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-EVA-1020-VN-5-Ethylene-Vinyl-Acetate-Copolymer-Blown-Film.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.940 g/cc	0.940 g/cc	ISO 1183
Vinyl Acetate Content	17.5 %	17.5 %	
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	2.0 g/10 min @Load 2.16 kg, Temperature 190 °C	2.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	5.60 MPa	812 psi	ISO 527-3
Film Tensile Strength at Yield, TD	4.60 MPa	667 psi	ISO 527-3
Film Elongation at Break, MD	330 %	330 %	ISO 527-3
Film Elongation at Break, TD	620 %	620 %	ISO 527-3
Modulus of Elasticity	0.0500 GPa	7.25 ksi	ISO 527-2
Elmendorf Tear Strength, MD	2.70 g/micron	68.6 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	4.40 g/micron	112 g/mil	ISO 6383-2
Dart Drop Test	500 g	1.10 lb	ISO 7765-1
Film Tensile Strength at Break, MD	29.0 MPa	4210 psi	ISO 527-3
Film Tensile Strength at Break, TD	28.0 MPa	4060 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	87.0 °C	189 °F	ISO 11357

Thermal Properties	Metric	English	Comments
Optical Properties	Metric	English	Comments
Haze	1.5 %	1.5 %	ISO 14782
Processing Properties	Metric	English	Comments
Processing Temperature	150 - 180 °C	302 - 356 °F	

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