

Total EVA 1040 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 1040 VN 4 is made by a high pressure tubular process. Grade for very flexible films with high transparency and good mechanical properties. Contains an antioxidant. Application examples: Thin stretch film for food packaging, coextrusion, cling film. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-EVA-1040-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
	15.0 - 100 microns	0.591 - 3.94 mil	possible range, depending on extrusion conditions
Melt Flow	4.5 g/10 min @Load 2.16 kg, Temperature 190 °C	4.5 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	4.90 MPa	711 psi	ISO 527-3
Film Elongation at Break, MD	370 %	370 %	ISO 527-3
Film Elongation at Break, TD	650 %	650 %	ISO 527-3
Modulus of Elasticity	0.0620 GPa	8.99 ksi	ISO 527-2
Elmendorf Tear Strength, MD	3.70 g/micron	94.0 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	4.50 g/micron	114 g/mil	ISO 6383-2
Dart Drop Test	300 g	0.662 lb	ISO 7765-1
Film Tensile Strength at Break, MD	27.0 MPa	3920 psi	ISO 527-3
Film Tensile Strength at Break, TD	23.0 MPa	3340 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	90.0 °C	194 °F	ISO 11357

Thermal Properties	Metric	English	Comments
Optical Properties	Metric	English	Comments
Haze	2.0 %	2.0 %	ISO 14782
Processing Properties	Metric	English	Comments
Processing Temperature	140 - 170 °C	284 - 338 °F	

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