

Braskem TN2006 EVA General Film Copolymer

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

Material Notes:

TN2006 is an Ethylene-Vinyl Acetate (EVA) copolymer with good mechanical properties, high flexibility and toughness even with low temperature, and excellent optical and heat sealability properties. Additionally, this product has a good water vapor barrier. The melt properties allow processability in tubular film equipment, being able to be coextruded in combination with many others materials. It contains antioxidant additives. Its applications include: heat seal layer in coextruded and laminated films, food packaging, hood stretch films, base polymer for agricultural films, and geomembranes.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-TN2006-EVA-General-Film-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.940 g/cc	0.0340 lb/in ³	ASTM-D1505
Vinyl Acetate Content	18 %	18 %	
Melt Flow	0.70 g/10 min @Load 2.16 kg, Temperature 190 °C	0.70 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	89	89	ASTM-D2240
Hardness, Shore D	39	39	ASTM-D2240
Tensile Strength at Break	33.0 MPa	4790 psi	ASTM-D638
Film Elongation at Break, MD	450 %	450 %	ASTM-D882
Film Elongation at Break, TD	700 %	700 %	ASTM-D882
Elongation at Break	680 %	680 %	ASTM-D638
Secant Modulus, MD	0.0390 GPa	5.66 ksi	2% Secant Modulus; ASTM-D882
Secant Modulus, TD	0.0380 GPa	5.51 ksi	2% Secant Modulus; ASTM-D882
Elmendorf Tear Strength MD	145 g	145 g	ASTM-D1922
Elmendorf Tear Strength TD	345 g	345 g	ASTM-D1922
Elmendorf Tear Strength, MD	2.90 g/micron	73.7 g/mil	ASTM-D1922
Elmendorf Tear Strength, TD	6.90 g/micron	175 g/mil	ASTM-D1922
Dart Drop	12.0 g/micron	305 g/mil	ASTM-D1709 (Method B)

Dart Drop Test Mechanical Properties	600 g Metric	1.32 lb English	ASTM-D1709 (Method B) Comments
Film Tensile Strength at Break, MD	32.0 MPa	4640 psi	ASTM-D882
Film Tensile Strength at Break, TD	31.0 MPa	4500 psi	ASTM-D882

Thermal Properties	Metric	English	Comments
Melting Point	90.0 °C	194 °F	ASTM-D3418
Vicat Softening Point	70.0 °C @Load 1.02 kg	158 °F @Load 2.25 lb	ASTM-D1525

Optical Properties	Metric	English	Comments
Haze	1.3 %	1.3 %	ASTM-D1003
Gloss	87 %	87 %	Angle 45°; ASTM-D2457

Processing Properties	Metric	English	Comments
Die Opening	0.100 - 0.150 cm	0.0394 - 0.0591 in	Blow Film Extrusion
Blow-up Ratio (BUR)	2.0 - 3.0	2.0 - 3.0	Blow Film Extrusion

Descriptive Properties	Value	Comments
Mass Temperature (°C)	175-190	Blow Film Extrusion
Temperature Profile (°C)	150-190	Blow Film Extrusion

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