

Braskem TN2005 EVA General Film Copolymer

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

Material Notes:

TN2005 is an Ethylene-Vinyl Acetate (EVA) copolymer with high molecular weight, excellent mechanical properties, transparency, high gloss, and easy processing. Additionally, TN2005 has flexibility even at low temperatures and good sealing properties. TN2005 can be used as base polymer for the manufacture of films for greenhouses, with excellent thermal effect. It contains antioxidant additives. Its applications include: thermal agricultural film (greenhouse coverage) with no UV-additives, blown film mono or co-extrusion for food packaging, films for frozen food packaging, and high clarity film with excellent mechanical properties.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-TN2005-EVA-General-Film-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.935 g/cc	0.0338 lb/in ³	ASTM-D1505
Vinyl Acetate Content	13.5 %	13.5 %	
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	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	91	91	ASTM-D2240
Hardness, Shore D	50	50	ASTM-D2240
Tensile Strength at Break	25.0 MPa	3630 psi	ASTM-D638
Film Elongation at Break, MD	400 %	400 %	ASTM-D882
Film Elongation at Break, TD	800 %	800 %	ASTM-D882
Elongation at Break	680 %	680 %	ASTM-D638
Secant Modulus, MD	0.600 GPa	87.0 ksi	2% Secant Modulus; ASTM-D882
Secant Modulus, TD	0.700 GPa	102 ksi	2% Secant Modulus; ASTM-D882
Elmendorf Tear Strength MD	100 g	100 g	ASTM-D1922
Elmendorf Tear Strength TD	270 g	270 g	ASTM-D1922
Elmendorf Tear Strength, MD	2.00 g/micron	50.8 g/mil	ASTM-D1922
Elmendorf Tear Strength, TD	5.40 g/micron	137 g/mil	ASTM-D1922
Dart Drop	8.50 g/micron	216 g/mil	ASTM-D1709 (Method B)

Dart Drop Test Mechanical Properties	425 g Metric	0.937 lb English	ASTM-D1709 (Method B) Comments
Film Tensile Strength at Break, MD	30.0 MPa	4350 psi	ASTM-D882
Film Tensile Strength at Break, TD	34.0 MPa	4930 psi	ASTM-D882

Thermal Properties	Metric	English	Comments
Melting Point	94.0 °C	201 °F	ASTM-D3418
Vicat Softening Point	75.0 °C @Load 1.02 kg	167 °F @Load 2.25 lb	ASTM-D1525

Optical Properties	Metric	English	Comments
Haze	2.2 %	2.2 %	ASTM-D1003
Gloss	82 %	82 %	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)	170-185	Blow Film Extrusion
Temperature Profile (°C)	145-185	Blow Film Extrusion

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