## Braskem EVA TN2005

## Ethylene Vinyl Acetate Copolymer

## Braskem

## Message:

TN2005 is an Ethylene-Vinyl Acetate (EVA) copolymer with high molecular weight, excellent mechanical properties, transparency, high gloss and easy processability. Additionally, TN2005 has flexibility even at low temperatures and good sealing properties. TN2005 can be used as base polymer for the manufacture of greenhouse films with excellent thermal properties. More detailed information about agricultural film applications and light stabilization recommendations, please contact a Braskem representative.

Application:

Thermal agricultural film (greenhouse coverage). No UV-additives. - Blown film mono or co-extrusion for food packaging

Films for frozen food packaging

High clarity film with excellent mechanical properties.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Copolymer		
	Good Flexibility		
	Good Processability		
	High Clarity		
	High Gloss		
	High Molecular Weight		
	Low Temperature Flexibility		
Uses	Agricultural Applications		
	Film		
	Food Packaging		
	Packaging		
Agency Ratings	FDA 21 CFR 177.1350		
Processing Method	Blown Film		
	Coextrusion		
	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.935	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16			
kg)	0.50	g/10 min	ASTM D1238
Vinyl Acetate Content	13.5	wt%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, Compression Molded	91		
Shore D, Compression Molded	50		

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, Compression Molded)	25.0	MPa	ASTM D638
Tensile Elongation (Break, Compression Molded)	680	%	ASTM D638
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	μm	
Secant Modulus			ASTM D882
2% Secant, MD : 50 μm, Blown Film	60.0	MPa	
2% Secant, TD : 50 μm, Blown Film	70.0	MPa	
Tensile Strength			ASTM D882
MD : Break, 50 µm,Blown Film	30.0	MPa	
TD : Break, 50 μm,Blown Film	34.0	MPa	
Tensile Elongation			ASTM D882
MD : Break, 50 µm,Blown Film	400	%	
TD : Break, 50 µm,Blown Film	800	%	
Dart Drop Impact (50 µm, Blown Film)	430	g	ASTM D1709B
Elmendorf Tear Strength			ASTM D1922
MD : 50 µm, Blown Film	100	g	
TD : 50 μm, Blown Film	270	g	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	75.0	°C	ASTM D1525 <sup>1</sup>
Peak Melting Temperature	94.0	°C	ASTM D3418
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.0 µm, Blown Film)	82		ASTM D2457
Haze (50.0 µm, Blown Film)	2.2	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	145 to 185	°C	
NOTE			
1.	Loading 1 (10 N)		

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Susheng Import & Export Trading Co.,Ltd. Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

