

Braskem EVA TN2020

Ethylene Vinyl Acetate Copolymer

Braskem

Message:

TN2020 is an Ethylene-Vinyl Acetate (EVA) copolymer, developed to mostly meet the needs of the multi-layer packaging segment produced by coextrusion and/or lamination processes. Multilayer structures with TN2020 can be irradiated to improve physical proprieties, such as, adhesion between layers, puncture resistance and hot sealing. Since it presents an exceptional weldability, this product meets the requirements for automatic or semi-automatic lines of cutting, welding, and/or packaging (with or without vacuum-packed process). It has excellent performance during the extrusion operation, thermal stability, and a low consumption of energy for its processing, rendering to package production a dimensional uniformity and excellent visual properties with high transparency and gloss that enhance the printing and surface finish of the packaging.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Copolymer		
	Excellent Printability		
	Good Surface Finish		
	Good Thermal Stability		
	High Clarity		
	High Gloss		
	Weldable		
	Uses	Film	
Food Packaging			
Packaging			
Shrink Wrap			
Agency Ratings	FDA 21 CFR 177.1350		
Processing Method	Coextruded Film		
Physical	Nominal Value	Unit	Test Method
Density	0.931	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Vinyl Acetate Content	8.5	wt%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, Compression Molded	93		
Shore D, Compression Molded	45		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, Compression Molded)	19.0	MPa	ASTM D638
Tensile Elongation (Break, Compression Molded)	700	%	ASTM D638

Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	μm	
Secant Modulus			ASTM D882
2% Secant, MD : 50 μm, Blown Film	76.0	MPa	
2% Secant, TD : 50 μm, Blown Film	79.0	MPa	
Tensile Strength			ASTM D882
MD : Break, 50 μm, Blown Film	24.0	MPa	
TD : Break, 50 μm, Blown Film	20.0	MPa	
Tensile Elongation			ASTM D882
MD : Break, 50 μm, Blown Film	440	%	
TD : Break, 50 μm, Blown Film	750	%	
Dart Drop Impact (50 μm, Blown Film)	230	g	ASTM D1709B
Elmendorf Tear Strength			ASTM D1922
MD : 50 μm, Blown Film	330	g	
TD : 50 μm, Blown Film	250	g	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	79.0	°C	ASTM D1525 ¹
Peak Melting Temperature	100	°C	ASTM D3418
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.0 μm, Blown Film)	86		ASTM D2457
Haze (50.0 μm, Blown Film)	1.8	%	ASTM D1003
Extrusion	Nominal Value	Unit	Test Method
Melt Temperature	135 to 185	°C	
NOTE			

1. Loading 1 (10 N)

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