

TOTAL Polyethylene EVA 1005 VN 2

Ethylene Vinyl Acetate Copolymer

TOTAL Refining & Chemicals

Message:

EVA 1005 VN 2 is made by a high pressure tubular process.
Grade for transparent and resistant films.
Application examples : Stretch, coextrusion, frozen food, agricultural film.

General Information			
Additive	Antioxidation		
Features	Antioxidation		
Uses	Films		
	Stretch winding		
	Agricultural application		
	Food packaging		
Forms	Particle		
Processing Method	Blow film		
Multi-Point Data	Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Nominal Value	Unit	Test Method
Density			
--	0.925	g/cm ³	ISO 1183
--	925	kg/m ³	ISO 1183 ¹
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.50	g/10 min	ISO 1133
Melt volume-flow rate (190°C/2.16 kg)	0.700	cm ³ /10min	ISO 1133 ²
Vinyl Acetate Content	5.5	wt%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
--	160	MPa	ISO 527-2
--	140	MPa	ISO 527-2 ³
Tensile Stress (Yield)	9.00	MPa	ISO 527-2 ⁴
Tensile Strain (Yield)	25	%	ISO 527-2 ⁵
Tensile Elongation at Break	> 50	%	ISO 527-2 ⁶
Films	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-3
MD: Yield, 40 µm, blown film	9.50	MPa	ISO 527-3
TD: Yield, 40 µm, blown film	8.50	MPa	ISO 527-3
MD: Broken, 40 µm, blown film	32.0	MPa	ISO 527-3
TD: Broken, 40 µm, blown film	27.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3

MD: Broken, 40 µm, blown film	300	%	ISO 527-3
TD: Broken, 40 µm, blown film	570	%	ISO 527-3
Dart Drop Impact (40 µm, Blown Film)	340	g	ISO 7765-1
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature			
--	90.0	°C	ISO 306
50°C/h, B (50N)	87.0	°C	ISO 306 ⁷
Melting Temperature (DSC)			
--	104	°C	ISO 3146
-- ⁸	104	°C	ISO 11357-3 ⁹

Additional Information

The value listed as Melting Temperature, ISO 3146, was tested in accordance with ISO 11357. Elmendorf, ISO 6383-2, MD, Blown Film, 40 µm: 34 N/mm Elmendorf, ISO 6383-2, TD, Blown Film, 40 µm: 33 N/mm Haze, ISO 14782, Blown Film, 40 µm: 8.8%

Extrusion instructions

Advised Temperature Profile: 160 to 190°C Possible Range of Thicknesses: 45 to 300 µ

NOTE

1. ?????,?? ISO 10350 ???
23°C/50%r.h. ???
2. ?????,?? ISO 10350 ???
23°C/50%r.h. ???
3. ?????,?? ISO 10350 ???
23°C/50%r.h. ???
4. ?????,?? ISO 10350 ???
23°C/50%r.h. ???
5. ?????,?? ISO 10350 ???
23°C/50%r.h. ???
6. ?????,?? ISO 10350 ???
23°C/50%r.h. ???
7. ?????,?? ISO 10350 ???
23°C/50%r.h. ???
8. 10 °C/min
9. ?????,?? ISO 10350 ???
23°C/50%r.h. ???

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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



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