

TOTAL Polyethylene EVA 1005 VN 5

Ethylene Vinyl Acetate Copolymer

TOTAL Refining & Chemicals

Message:

EVA 1005 VN 5 is made by a high pressure tubular process.
Grade for films with high transparency and good mechanical properties.
Application examples: Coextrusion, stretch film, paper-stationary, geomembrane, stretch hood

General Information			
Additive	Antioxidation		
Features	Antioxidation		
Uses	Geo Membranes		
	Stretch winding		
	Stationery		
Forms	Particle		
Processing Method	Blow film		
	Co-extrusion molding		
Multi-Point Data	Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Nominal Value	Unit	Test Method
Density			
--	0.940	g/cm ³	ISO 1183
--	940	kg/m ³	ISO 1183 ¹
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.75	g/10 min	ISO 1133
Melt volume-flow rate (190°C/2.16 kg)	1.00	cm ³ /10min	ISO 1133 ²
Vinyl Acetate Content	17.0	wt%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
--	56.0	MPa	ISO 527-2
--	50.0	MPa	ISO 527-2 ³
Tensile Strain (Yield)	25	%	ISO 527-2 ⁴
Tensile Elongation at Break	> 50	%	ISO 527-2 ⁵
Films	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-3
MD: Yield, 40 µm, blown film	6.30	MPa	ISO 527-3
TD: Yield, 40 µm, blown film	4.50	MPa	ISO 527-3
MD: Broken, 40 µm, blown film	38.0	MPa	ISO 527-3
TD: Broken, 40 µm, blown film	39.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3

MD: Broken, 40 µm, blown film	320	%	ISO 527-3
TD: Broken, 40 µm, blown film	660	%	ISO 527-3
Dart Drop Impact (40 µm, Blown Film)	680	g	ISO 7765-1
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature			
--	69.0	°C	ISO 306
50°C/h, B (50N)	69.0	°C	ISO 306 ⁶
Melting Temperature (DSC)			
--	89.0	°C	ISO 3146
-- ⁷	90.0	°C	ISO 11357-3 ⁸

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: 18 N/mm Elmendorf, ISO 6383-2, TD, Blown Film, 40 µm: 40 N/mm Haze, ISO 14782, Blown Film, 40 µm: 2%

Extrusion instructions

Advised Temperature Profile: 150 to 180°C Possible Range of Thicknesses: 25 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. 10 °C/min
8. ?????,?? ISO 10350 ???
23°C/50%r.h. ???

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