

TOTAL Polyethylene EVA 1005 VN 4

Ethylene Vinyl Acetate Copolymer

TOTAL Refining & Chemicals

Message:

EVA 1005 VN 4 is made by a high pressure tubular process.
Grade for flexible films with high transparency and good mechanical properties.
Application examples: High strength stretch film, coextrusion, green-house film, stretch hood

General Information			
Additive	Antioxidation		
Features	Antioxidation		
Uses	Films		
	Stretch winding		
Agency Ratings	FDA Food Exposure, Not Rated		
Forms	Particle		
Processing Method	Blow film		
Multi-Point Data	Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Nominal Value	Unit	Test Method
Density			
--	0.935	g/cm³	ISO 1183
--	935	kg/m³	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	cm³/10min	ISO 1133 ²
Vinyl Acetate Content	14.0	wt%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
--	65.0	MPa	ISO 527-2
--	75.0	MPa	ISO 527-2 ³
Tensile Stress (Yield)	6.00	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	6.50	MPa	ISO 527-3
TD: Yield, 40 µm, blown film	5.00	MPa	ISO 527-3
MD: Broken, 40 µm, blown film	36.0	MPa	ISO 527-3
TD: Broken, 40 µm, blown film	35.0	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	610	%	ISO 527-3
Dart Drop Impact (40 µm, Blown Film)	600	g	ISO 7765-1
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature			
--	72.0	°C	ISO 306
50°C/h, B (50N)	72.0	°C	ISO 306 ⁷
Melting Temperature (DSC)			
--	91.0	°C	ISO 3146
-- ⁸	93.0	°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: 18 N/mm Elmendorf, ISO 6383-2, TD, Blown Film, 40 µm: 30 N/mm Haze, ISO 14782, Blown Film, 40 µm: 2.5%

Extrusion instructions

Advised Temperature Profile: 150 to 180°C Possible Range of Thicknesses: 30 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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