

TOTAL Polyethylene EVA 1020 VN 3

Ethylene Vinyl Acetate Copolymer

TOTAL Refining & Chemicals

Message:

EVA 1020 VN 3 is made by a high pressure tubular process.
Grade for flexible, very transparent films with high strength and very good sealability.
Application examples : Thin shrink film for food packaging (coextrusion, lamination...), stretch film.

General Information			
Additive	Antioxidation		
Features	High strength		
	Antioxidation		
Uses	Films		
	Food packaging		
	Shrinkable film		
Forms	Particle		
Processing Method	Blow film		
Multi-Point Data	Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Nominal Value	Unit	Test Method
Density			
--	0.929	g/cm ³	ISO 1183
--	929	kg/m ³	ISO 1183 ¹
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.0	g/10 min	ISO 1133
Melt volume-flow rate (190°C/2.16 kg)	4.00	cm ³ /10min	ISO 1133 ²
Vinyl Acetate Content	9.0	wt%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	100	MPa	ISO 527-2
Tensile Stress (Yield)	7.00	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	7.80	MPa	ISO 527-3
TD: Yield, 40 µm, blown film	6.50	MPa	ISO 527-3
MD: Broken, 40 µm, blown film	29.0	MPa	ISO 527-3
TD: Broken, 40 µm, blown film	24.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 40 µm, blown film	380	%	ISO 527-3

TD: Broken, 40 µm, blown film	570	%	ISO 527-3
Dart Drop Impact (40 µm, Blown Film)	400	g	ISO 7765-1
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature			
--	79.0	°C	ISO 306
50°C/h, B (50N)	77.0	°C	ISO 306 ⁶
Melting Temperature (DSC)			
--	97.0	°C	ISO 3146
-- ⁷	98.0	°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: 30 N/mm Elmendorf, ISO 6383-2, TD, Blown Film, 40 µm: 35 N/mm Haze, ISO 14782, Blown Film, 40 µm: 3.5%

Extrusion instructions

Advised Temperature Profile: 150 to 180°C Possible Range of Thicknesses: 20 to 100 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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