

Orevac® T 9318

Ethylene Vinyl Acetate Copolymer

Arkema

Message:

OREVAC® T 9318 is a random terpolymer of ethylene, vinyl acetate and maleic anhydride made by high-pressure radical polymerization process. As an ethylene copolymer, OREVAC® T 9318 is compatible with PE in all proportions, and with most other ethylene copolymers. Vinyl acetate brings softness, flexibility and polarity, maleic anhydride gives reactivity, leading to versatile adhesive properties to polar and non polar substrates. As a result of high-pressure polymerisation in tubular reactor, OREVAC® T 9318 exhibits high transparency (low haze).

Applications

OREVAC® T 9318 can be used to produce thermo-adhesive films for solid substrates like PA, PET & PU films, aluminium foils, fiber mats, foams...

OREVAC® T 9318 is also suitable as a tie layer between polyethylene and polyamide in blown film, cast film or in tubes coextrusion. It can be used as a coupling agent in cables compounds formulations.

General Information

Features	Good Adhesion High Clarity Terpolymer
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Uses	Adhesives Film Tie-Layer Wire & Cable Applications
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Processing Method	Blown Film Cast Film Coextrusion
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Physical	Nominal Value	Unit	Test Method
Density	0.943	g/cm ³	ISO 1183, ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.0 to 8.0	g/10 min	ASTM D1238, ISO 1133
Vinyl Acetate Content	17.0 to 20.0	wt%	
Maleic Anhydride Content	1600	ppm	Internal Method
Ring and Ball Softening Point	158	°C	ASTM E28

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 15 sec, 2.80 mm, Compression Molded)	88		ASTM D2240, ISO 868

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Break, 2.80 mm, Compression Molded ¹	22.0	MPa	ASTM D638
Break, 2.80 mm, Compression Molded	22.0	MPa	ISO 527-2/5A/50
Tensile Elongation			
Break, 2.80 mm, Compression Molded ²	700 to 900	%	ASTM D638

Break, 2.80 mm, Compression Molded	700 to 900	%	ISO 527-2/5A/50
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	57.0	°C	ISO 306/A, ASTM D1525 ³
Melting Temperature	88.0	°C	ISO 11357-3

NOTE

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| 1. | 50 mm/min |
| 2. | 50 mm/min |
| 3. | Loading 1 (10 N) |

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