

# Orevac® T 9304

Ethylene Vinyl Acetate Copolymer

Arkema

## Message:

OREVAC® T 9304 is a random terpolymer of ethylene, vinyl acetate and maleic anhydride made by high-pressure radical polymerization process. As an ethylene copolymer, OREVAC® T 9304 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 9304 exhibits high transparency (low haze).

### Applications

OREVAC® T 9304 is compatible with most tackifying resins and waxes and can be used for hot melt adhesives formulations. OREVAC® T 9304 is also suitable to produce thermo-adhesive films for solid substrates like PA, PET & PU films, aluminium foils, fiber mats, foams... OREVAC® T 9304 can also be used as a tie layer between polyethylene and polyamide in blown film coextrusion.

General Information	
Features	Good Adhesion
	Good Flexibility
	High Clarity
	Soft
	Terpolymer
Uses	Adhesives
	Film
	Tie-Layer
Processing Method	Blown Film
	Coextruded Film
	Film Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm <sup>3</sup>	ISO 1183, ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.5 to 9.3	g/10 min	ASTM D1238, ISO 1133
Vinyl Acetate Content	23.5 to 26.5	wt%	
Maleic Anhydride Content	1600	ppm	
Ring and Ball Softening Point	150	°C	ASTM E28
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 2.80 mm, Compression Molded)	82		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Break, 2.80 mm, Compression Molded <sup>1</sup>	26.0	MPa	ASTM D638
Break, 2.80 mm, Compression Molded	26.0	MPa	ISO 527-2/5A/50
Tensile Elongation			

Break, 2.80 mm, Compression Molded <sup>2</sup>	600 to 900	%	ASTM D638
Break, 2.80 mm, Compression Molded	600 to 900	%	ISO 527-2/5A/50
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	43.0	°C	ISO 306/A, ASTM D1525 <sup>3</sup>
Melting Temperature	80.0	°C	ISO 11357-3
Extrusion	Nominal Value	Unit	
Melt Temperature	< 230	°C	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	Loading 1 (10 N)		

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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

