

ELEVATE™ EM518

Ethylene Vinyl Acetate Copolymer

Westlake Chemical Corporation

Message:

Westlake ELEVATE™ EM518AA is an ethylene vinyl acetate copolymer with 18.5% VA. EM518AA is designed for use in applications such as injection molding, compounding, foaming, and general extrusion. This material has excellent low temperature brittleness properties, melt strength, and flexibility.

Application/Uses:

Injection Molding

Compounding

Foam

General Information			
Features	Copolymer		
	Good melt strength		
	Good flexibility		
	Low temperature resistance		
Uses	Composite		
	Foam		
Processing Method	Composite		
	Extrusion		
	Foam treatment		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.940	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)	2.5	g/10 min	ASTM D1238
Vinyl Acetate Content	18.5	wt%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec, Compression Molded)	32		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, Compression Molded)	12.0	MPa	ASTM D638
Tensile Elongation (Break, Compression Molded)	650	%	ASTM D638
Flexural Modulus - 1% Secant (Compression Molded)	48.3	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	68.0	°C	ASTM D1525
Peak Melting Temperature	86.0	°C	Internal method
Additional Information			

Tests are run at 23°C (73°F) and 50% relative humidity.

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