

EVATHENE® UE659

Ethylene Vinyl Acetate Copolymer

USI Corporation

Message:

EVATHENE UE659 is a high VA content ethylene vinyl acetate copolymer (EVA) with excellent low temperature impact strength, environmental stress crack resistance, flexibility, elasticity, transparency, and processability. It could be developed for many new applications and substitute for flexible PVC, rubbers, and other elastomers. One of major application of UE659 is mixed with blowing agent and cross-linking agent for compression molding or injection molding of foamed shoe sole. Another major application of UE659 is to mix with tackifier and PE wax to make hot melt adhesive. Besides, UE659 could be processed by injection molding, and extrusion while incorporated with additives.

General Information			
Features	Copolymer		
	Good Flexibility		
	Good Processability		
	High Clarity		
	High Elasticity		
	High ESCR (Stress Crack Resist.)		
	Low Temperature Impact Resistance		
Uses	Adhesives		
	Foam		
	Footwear		
	Non-specific Food Applications		
Processing Method	Compression Molding		
	Extrusion		
	Foam Processing		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.947	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)	2.0	g/10 min	ASTM D1238
Vinyl Acetate Content	25.0	wt%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	32		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	212	MPa	ASTM D638
Tensile Elongation (Break)	890	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -76.0	°C	ASTM D746
Vicat Softening Temperature	54.0	°C	ASTM D1525

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