

Solumer™ 885V

Polyolefin Elastomer

Introduction

Solumer™ 885V, Polyolefin Elastomer (POE) is an **ethylene-octene copolymer** produced via Nexlene™ technology. It is designed to be used a base polymer of PV encapsulant, which provides excellent electrical properties, high transmittance, and good weathering resistance.

Applications

- Photovoltaic module encapsulant

Properties

		Typical Values	Unit	Test Method
Physical Properties	Density	0.873	g/cm ³	ASTM D792
	Melt index (2.16 kg @190°C)	5.0	g/10min	ASTM D1238
	Mooney viscosity (ML1+4 @ 121°C)	8	MU	ASTM D1646
Mechanical Properties¹	Tensile strength at break	>80	kgf/cm ²	ASTM D638 ²
	Elongation at break	>800	%	ASTM D638 ²
	Tensile modulus (100% Elongation)	28	kgf/cm ²	ASTM D638 ²
	Flexural modulus (1% secant)	110	kgf/cm ²	ASTM D790
	Tear strength (Type C)	33	kgf/cm ²	ASTM D624
	Hardness			
	Shore A (5 sec)	73		ASTM D2240
	Shore D (5 sec)	20		ASTM D2240
Thermal Properties	Melting temperature	65	°C	SK Method
	Glass transition temperature	-55	°C	SK Method
Electrical Properties	Volume resistivity	>1.0E+16	Ω.cm	SK Method

¹ Evaluated using compression molded sample, process condition: 170 °C, 4 min

² Crosshead speed: 500 mm/min.

Notes

These are *typical values* and are *not to be construed as specifications*. The physical properties are highly dependent on the manufacturing conditions. So customers should confirm performances by their own tests.

For additional sales, order and technical assistance

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