

Solumer™ 891

Polyolefin Elastomer

Introduction

Solumer™ 891 is an **ethylene-octene copolymer** produced via Nexlene™ technology. It performs well in a wide range of general purpose thermoplastic elastomer applications and has excellent flow characteristics

Applications

- General purpose thermoplastic elastomers
- Wire and cable
- Footwear
- Impact modification

Properties

		Typical Values	Unit	Test Method
Physical Properties	Density	0.885	g/cm ³	ASTM D792
	Melt index (2.16 kg @190°C)	1.0	g/10min	ASTM D1238
	Mooney viscosity (ML1+4 @ 121°C)	21	MU	ASTM D1646
Mechanical Properties¹	Tensile strength at break	170	kgf/cm ²	ASTM D638 ²
	Elongation at break	700	%	ASTM D638 ²
	Tensile modulus (100% Elongation)	47	kgf/cm ²	ASTM D638 ²
	Flexural modulus (1% secant)	300	kgf/cm ²	ASTM D790
	Tear strength (Type C)	59	kgf/cm ²	ASTM D624
	Hardness			
	Shore A (1 sec)	81		ASTM D2240
	Shore D (1 sec)	29		ASTM D2240
Thermal Properties	Melting temperature	74	°C	SK Method
	Glass transition temperature	-47	°C	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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