

Technical Information

Solumer™ 891

Polyolefin Elastomer

Introduction

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

Applications

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

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

² Crosshead speed: 500 mm/min

Notes

These are **typical values** and are **not 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

Head office SK Global Chemical Co.,LTD
26 Jong-ro, Jongno-gu,
Seoul, Korea
TEL +82-2-2121-6757

TS&D SK innovation Global Technology
325 Exporo, Yueseong-gu,
Daejeon, Korea
TEL +82-42-609-8623

Revised: Aug. 5th, 2016

Copyright SK