

Technical Information

Solumer™ 871

Polyolefin Elastomer

Introduction

Solumer™ 871 is an **ethylene-octene copolymer** produced via Nexlene™ technology. Solumer™ 871 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	0.868	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	95	kgf/cm ²	ASTM D638 ²
	Elongation at break	850	%	ASTM D638 ²
	Tensile modulus (100% Elongation)	30	kgf/cm ²	ASTM D638 ²
	Flexural modulus (1% secant)	140	kgf/cm ²	ASTM D790
	Tear strength (Type C)	41	kgf/cm ²	ASTM D624
	Hardness	Shore A (1 sec)	72	ASTM D2240
		Shore D (1 sec)	21	ASTM D2240
Thermal Properties	Melting temperature	62	°C	SK Method
	Glass transition temperature	-52	°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

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