

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
- Wire and cable
- Impact modification
- 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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