

Technical Information

Solumer™ 851T

Polyolefin Elastomer

Introduction

Solumer™ 851T is an ultra-low density **ethylene-octene copolymer** produced via Nexlene™ technology. It has excellent flow characteristics and provides superior impact resistance with other polymers.

Applications

- Impact modification
- Industrial and consumer durable goods (injection)

Properties

		Typical Values	Unit	Test Method
Physical Properties	Density	0.857	g/cm ³	ASTM D792
	Melt index (2.16 kg @190°C)	1.0	g/10min	ASTM D1238
	Mooney viscosity (ML1+4 @ 121°C)	24	MU	ASTM D1646
Mechanical Properties¹	Tensile strength at break	25	kgf/cm ²	ASTM D638 ²
	Elongation at break	>1000	%	ASTM D638 ²
	Tensile modulus (100% Elongation)	14	kgf/cm ²	ASTM D638 ²
	Flexural modulus (1% secant)	45	kgf/cm ²	ASTM D790
	Tear strength (Type C)	28	kgf/cm ²	ASTM D624
	Hardness	Shore A (1 sec)	55	ASTM D2240
		Shore D (1 sec)	12	ASTM D2240
Thermal Properties	Melting temperature	38	°C	SK Method
	Glass transition temperature	-59	°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 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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