

Solumer™ 851T

Polyolefin Elastomer

Introduction

Solumer™ 851T is an ultra-low density ethylene-octene copolymer produced via Nexlene™ technology. Solumer™ 851T 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	kN/m	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

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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