



# ENSOFT SX-300-45A

## Ravago Manufacturing Turkey - Thermoplastic Elastomer

### General Information

#### Product Description

This polyolefin based thermoplastic elastomer (SEBS) compound is unfilled, high performance and completely recyclable. ENSOFT® series can be processed with conventional thermoplastics machinery

#### Additive Packages :

T / Heat and UV stabilizer

#### Key Features :

Translucent

Excellent ozone, UV and weathering resistance

Rubberlike elasticity in a wide temperature range

Low compression set

Super high flow for difficult injection molding applications

Easy colorability with proper MB (PE, PP, etc. based)

#### Process Method :

Injection/multi injection molding

#### Uses :

Industrial applications, automotive, personal care, toys, consumer goods, home&kitchen appliances

#### General

Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Additive	• Heat Stabilizer	• UV Stabilizer	
Features	• Chemical Resistant • Good Colorability • Good Weather Resistance • Heat Stabilized	• High Elasticity • High Flow • Low Compression Set • Ozone Resistant	• Recyclable Material • UV Resistant • UV Stabilized
Uses	• Appliances • Automotive Applications	• Consumer Applications • Industrial Applications	• Personal Care • Toys
Appearance	• Translucent		
Processing Method	• Injection Molding	• Multi Injection Molding	

### Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm <sup>3</sup>	ISO 1183/A

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<b>Elastomers</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Stress (100% Strain)	1.00	MPa	ISO 37
Tensile Stress (300% Strain)	1.70	MPa	ISO 37
Tensile Stress (Break)	6.00	MPa	ISO 37
Tensile Elongation (Break)	> 800	%	ISO 37
Tear Strength - Across Flow	27.0	kN/m	ISO 34-1
Compression Set			ASTM D395B
23°C, 72 hr	15	%	
70°C, 22 hr	35	%	
<b>Hardness</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Shore Hardness (Shore A, 3 sec)	45		ISO 868
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	
Brittleness Temperature	-55.0	°C	
Service Temperature			
Dynamic	90	°C	
Static	110	°C	

### Processing Information

<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>
Hopper Temperature	150 to 160	°C
Middle Temperature	160 to 170	°C
Front Temperature	170 to 180	°C
Nozzle Temperature	185 to 190	°C
Processing (Melt) Temp	190 to 200	°C
Mold Temperature	10 to 50	°C

#### Injection Notes

Max Allowable Melt Temperature: 250°C

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.