



# ENSOFT SD-641-45D

## Ravago Manufacturing Turkey - Thermoplastic Elastomer

### General Information

#### Product Description

This polyolefin based thermoplastic elastomer (SEBS) compound is medium mineral filled, completely recyclable and specifically designed for extrudability at low temperatures. ENSOFT® series can be processed with conventional thermoplastics machinery

#### Additive Packages :

T / Heat and UV stabilizer

#### Key Features :

- Excellent ozone, UV and weathering resistance
- Extra smooth, silky surface appearance
- Rubberlike elasticity in a wide temperature range
- Ease of processing at lower temperatures
- Easy colorability with proper MB (PE, PP, etc. based)

#### Process Method :

Extrusion, coextrusion, sheet extrusion

#### Uses :

Extruded parts (seals, tubes, profiles, hoses, etc.) for automotive, construction, home appliances, furniture

#### General

Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Filler / Reinforcement	• Mineral		
Additive	• Heat Stabilizer	• UV Stabilizer	
Features	<ul style="list-style-type: none"> <li>• Chemical Resistant</li> <li>• Good Colorability</li> <li>• Good Processability</li> <li>• Good Surface Finish</li> </ul>	<ul style="list-style-type: none"> <li>• Good Weather Resistance</li> <li>• Heat Stabilized</li> <li>• High Elasticity</li> <li>• Ozone Resistant</li> </ul>	<ul style="list-style-type: none"> <li>• Recyclable Material</li> <li>• UV Resistant</li> <li>• UV Stabilized</li> </ul>
Uses	<ul style="list-style-type: none"> <li>• Appliances</li> <li>• Automotive Applications</li> <li>• Construction Applications</li> </ul>	<ul style="list-style-type: none"> <li>• Furniture</li> <li>• Hose</li> <li>• Profiles</li> </ul>	<ul style="list-style-type: none"> <li>• Seals</li> <li>• Tubing</li> </ul>
Processing Method	• Coextrusion	• Extrusion	• Sheet Extrusion

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

Physical	Nominal Value	Unit	Test Method
Density	1.08	g/cm <sup>3</sup>	ISO 1183/A
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	9.00	MPa	ISO 37
Tensile Stress (300% Strain)	11.0	MPa	ISO 37
Tensile Stress (Break)	18.0	MPa	ISO 37
Tensile Elongation (Break)	600	%	ISO 37
Tear Strength - Across Flow	85.0	kN/m	ISO 34-1
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 3 sec)	45		ISO 868

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Thermal	Nominal Value	Unit
Brittleness Temperature	-55.0	°C
Service Temperature		
Dynamic	90	°C
Static	135	°C

### Processing Information

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	150 to 170	°C
Cylinder Zone 3 Temp.	160 to 175	°C
Cylinder Zone 5 Temp.	170 to 180	°C
Adapter Temperature	180 to 190	°C
Die Temperature	180 to 200	°C

### Notes

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