



# ENSOFIT SD-161-40A

## Ravago Manufacturing Turkey - Thermoplastic Elastomer

### General Information

#### Product Description

This polyolefin based thermoplastic elastomer (SEBS) compound is high mineral filled, completely recyclable and suitable for general purpose applications. ENSOFIT® series can be processed with conventional thermoplastics machinery

#### Additive Packages :

T / Heat and UV stabilizer

#### Key Features :

Excellent ozone, UV and weathering resistance

Rubberlike elasticity in a wide temperature range

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               | • Chemical Resistant<br>• Good Colorability<br>• Good Weather Resistance | • Heat Stabilized<br>• High Elasticity<br>• Ozone Resistant | • Recyclable Material<br>• UV Resistant<br>• UV Stabilized |
| Uses                   | • Appliances<br>• Automotive Applications<br>• Construction Applications | • Furniture<br>• Hose<br>• Profiles                         | • Seals<br>• Tubing                                        |
| Processing Method      | • Coextrusion                                                            | • Extrusion                                                 | • Sheet Extrusion                                          |

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

| Physical                        | Nominal Value | Unit              | Test Method |
|---------------------------------|---------------|-------------------|-------------|
| Density                         | 1.18          | g/cm <sup>3</sup> | ISO 1183/A  |
| Elastomers                      | Nominal Value | Unit              | Test Method |
| Tensile Stress (100% Strain)    | 0.700         | MPa               | ISO 37      |
| Tensile Stress (300% Strain)    | 1.40          | MPa               | ISO 37      |
| Tensile Stress (Break)          | 4.20          | MPa               | ISO 37      |
| Tensile Elongation (Break)      | 740           | %                 | ISO 37      |
| Tear Strength - Across Flow     | 21.0          | kN/m              | ISO 34-1    |
| Compression Set                 |               |                   | ASTM D395B  |
| 23°C, 72 hr                     | 18            | %                 |             |
| 70°C, 22 hr                     | 34            | %                 |             |
| Hardness                        | Nominal Value | Unit              | Test Method |
| Shore Hardness (Shore A, 3 sec) | 40            |                   | ISO 868     |

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| Thermal                 | Nominal Value | Unit |
|-------------------------|---------------|------|
| Brittleness Temperature | -55.0         | °C   |
| Service Temperature     |               |      |
| Dynamic                 | 90            | °C   |
| Static                  | 110           | °C   |

| Processing Information |               |      |
|------------------------|---------------|------|
| Extrusion              | Nominal Value | Unit |
| Cylinder Zone 1 Temp.  | 170 to 190    | °C   |
| Cylinder Zone 3 Temp.  | 180 to 195    | °C   |
| Cylinder Zone 5 Temp.  | 195 to 205    | °C   |
| Adapter Temperature    | 200 to 210    | °C   |
| Die Temperature        | 200 to 220    | °C   |

Notes

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