



# ENSOFIT SO-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 :

C / Heat and UV stabilizer and fast cycle additive

#### 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 :

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           |                       |
| Filler / Reinforcement | • Mineral                 |                           |                       |
| Additive               | • Heat Stabilizer         | • Unspecified Additive    | • UV Stabilizer       |
| Features               | • Chemical Resistant      | • Heat Stabilized         | • Recyclable Material |
|                        | • Good Colorability       | • High Elasticity         | • UV Resistant        |
|                        | • Good Weather Resistance | • Ozone Resistant         | • UV Stabilized       |
| Uses                   | • Appliances              | • Consumer Applications   | • Personal Care       |
|                        | • Automotive Applications | • Industrial Applications | • Toys                |
| Processing Method      | • Injection Molding       | • Multi Injection Molding |                       |

### 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)    | 0.600         | MPa               | ISO 37      |
| Tensile Stress (300% Strain)    | 1.20          | MPa               | ISO 37      |
| Tensile Stress (Break)          | 4.00          | MPa               | ISO 37      |
| Tensile Elongation (Break)      | 750           | %                 | ISO 37      |
| Tear Strength - Across Flow     | 20.0          | kN/m              | ISO 34-1    |
| Compression Set                 |               |                   | ASTM D395B  |
| 23°C, 72 hr                     | 19            | %                 |             |
| 70°C, 22 hr                     | 35            | %                 |             |
| 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 |               |      |
|------------------------|---------------|------|
| Injection              | Nominal Value | Unit |
| Hopper Temperature     | 170 to 180    | °C   |
| Middle Temperature     | 180 to 190    | °C   |
| Front Temperature      | 190 to 200    | °C   |
| Nozzle Temperature     | 200 to 210    | °C   |
| Processing (Melt) Temp | 210 to 220    | °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.