



## ENSOFT SO-141-65A

### ENSOFT-S

|                              |                                                                                                                                                                                                                                                   |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description :</b> | This polyolefin based thermoplastic elastomer (SEBS) compound is produced with food contact compliant raw materials, medium mineral filled and completely recyclable. ENSOFT® series can be processed with conventional thermoplastics machinery. |
| <b>Additive Packages :</b>   | T / Heat and UV stabilizer<br>/                                                                                                                                                                                                                   |
| <b>Key Features :</b>        | Excellent ozone, UV and weathering resistance<br>Rubberlike elasticity in a wide temperature range<br>Easy colorability with proper MB (PE, PP, etc. Based)                                                                                       |
| <b>Process Method :</b>      | Injection/multi injection molding                                                                                                                                                                                                                 |
| <b>Uses :</b>                | Industrial applications, automotive, personal care, toys, consumer goods, home&kitchen appliances                                                                                                                                                 |

|                                       | Value | Unit     | Standard              |
|---------------------------------------|-------|----------|-----------------------|
| <b>Physical</b>                       |       |          |                       |
| Hardness                              | 65    | SHORE A  | ISO 868 (3 second)    |
| Density                               | 1,08  | gr / cm3 | ISO 1183 1-A          |
| <b>Mechanical</b>                     |       |          |                       |
| 100% Modulus                          | 1,7   | Mpa      | ISO 37(S1,500 mm/min) |
| 300% Modulus                          | 2,4   | Mpa      | ISO 37(S1,500 mm/min) |
| Tensile Strength At Break             | 8,2   | Mpa      | ISO 37(S1,500 mm/min) |
| Elongation at Break                   | 710   | %        | ISO 37(S1,500 mm/min) |
| Tear Strength (Perpendicular to flow) | 25    | N/mm     | ISO 34-1 Method B     |
| <b>Aging</b>                          |       |          |                       |
| Compression Set (72h/23°C)            | 27    | %        | ISO 815               |
| Compression Set (22h/70°C)            | 40    | %        | ISO 815               |
| Compression Set (22h/100°C)           | 66    | %        | ISO 815               |

#### Environmental Resistance

|         |           |
|---------|-----------|
| Ozone   | Excellent |
| Water   | Excellent |
| Alcohol | Excellent |



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|                |      |
|----------------|------|
| Olive Oil      | Fair |
| Sulphuric Acid | Good |
| Detergent      | Good |

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#### Drying Condition

|                        |              |
|------------------------|--------------|
| Drying Time(hr)        | Not required |
| Drying Temperature(°C) | Not required |

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#### Molding Condition (°C)

|                                    |         |
|------------------------------------|---------|
| 1st Zone (hopper)(°C)              | 150-160 |
| 2nd Zone(°C)                       | 160-170 |
| 3rd Zone(°C)                       | 170-180 |
| Nozzle(°C)                         | 185-190 |
| Melt Temperature(°C)               | 190-200 |
| Mold Temperature(°C)               | 10-50   |
| Max Allowable Melt Temperature(°C) | 250 C   |

