



## Product information

### Duro-Glide<sup>®</sup> # 845 Brown Oil

**Duro-Glide<sup>®</sup> - L # 845 (Lube)** is an oil filled UHMW Polymer. This material was designed for the table top conveying industry. The enhanced lubricated oil filler helps on high speed chains or heavy dry run areas of the conveyor. Further, it helps reduce noise levels with its excellent gliding properties. This UHMW is known for its great impact strength and abrasion resistance surface qualities.

**Properties:**                    great gliding properties  
    water repellent  
    great noise reduction  
    lubricant stays on surface (oil)  
    no greasing required !  
    FDA - CFR 21 §178.3570 Compliant

**Color:**                            Brown                            # 845

**Application fields:**    Conveyor industry  
    Machine construction

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## Physical Properties Data Sheet

### Duro-Glide<sup>®</sup> # 845 Brown Oil

(UHMW – PE)

Characteristics and standard values

| Physical Properties   | Method                            | SI Unit                                 | SI Value                   |
|---|-----------------------------------|---|----------------------------|
| Density   | ASTM D792                         | g/cc                                    | > 0.93                     |
|   | ISO 1183-1                        | g/cm <sup>3</sup>                       | > 0.93                     |
| Abrasion (Sand-Slurry-Test rel. to GUR 4120 = 100%)   | ISO 15527                         | %<br>(Average)                          | 80 (± 5%)                  |
| Notched impact strength   | ISO 11542-2                       | mJ/mm <sup>2</sup><br>kJ/m <sup>2</sup> | > 80                       |
| Tensile strength, yield   | ASTM D638                         | psi                                     | > 2350                     |
|   | ISO 527-2                         | MPa                                     | > 16                       |
| Break elongation  | ASTM D638                         | %                                       | > 250                      |
|   | ISO 527-2                         | %                                       | > 50                       |
| Creep properties under varying compressive stress : Creep <10%                                    | max.                              | psi                                     | ---                        |
|   |                                   | MPa                                     | ---                        |
| Coefficient of friction, ASTM 1894<br>metal= Rz 2,5 μ, Pm= 2 N/mm <sup>2</sup> ,<br>V= 150 mm/min | Static<br>Dynamic                 | μ                                       | 0.15                       |
|   |                                   | μ                                       | 0.09                       |
| Shore-hardness,<br>3-s-value 6mm plate  | ASTM D2240<br>ISO 868 / DIN 53505 | D                                       | 60                         |
|   |                                   | D                                       | 60                         |
| Water absorption  | ---                               | %                                       | < 0.1 (Nil)                |
| Flammability  | UL 94                             | ---                                     | HB                         |
| <b>Thermal Properties</b>   |                                   |   |                            |
| Melt temperature  | ASTM 3417 (DSC)<br>ISO 3146 (DSC) | °F                                      | 275 – 278                  |
|   |                                   | °C                                      | 135 – 137                  |
| Permanent operation temp., max.   | ---                               | °F                                      | 176                        |
|   |                                   | °C                                      | 80                         |
| Coefficient of linear expansion   | ASTM D696<br>DIN 53752            | 73 – 176 °F                             | ≈ 1.1x10 <sup>-4</sup> /°F |
|   |                                   | 23 – 80°C                               | ≈ 2.0x10 <sup>-4</sup> /°C |
| <b>Electrical Properties</b>  |                                   |   |                            |
| Surface resistivity   | ASTM D257<br>IEC 93               | Ohm                                     | > 10 <sup>12</sup>         |
|   |                                   | Ω                                       | > 10 <sup>12</sup>         |
| Volume resistivity  | ASTM D257<br>IEC 93               | Ohm-cm                                  | > 10 <sup>12</sup>         |
|   |                                   | Ω*cm                                    | > 10 <sup>12</sup>         |

Any suggestions or recommendations for the use of our products are based on tests believed to be reliable and on the independent judgment of our technicians. However, it is ultimately up to the Customer/End User to determine whether the product(s) provided by TSE-OK, LLC are suitable for the intended purpose or application. TSE-OK, LLC makes no warranty of fitness for a particular purpose, nor does it guarantee the results to be obtained. Nothing in this literature is intended as a recommendation to use our products so as to infringe on any patent.

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