

## Technical Data Sheet

### Softflex 2701 3717 Purple blend



Thermoplastic Elastomer

#### Product Description

Softflex 2701 3717 Purple blend is a Thermoplastic Elastomer material.

#### Regulatory Status

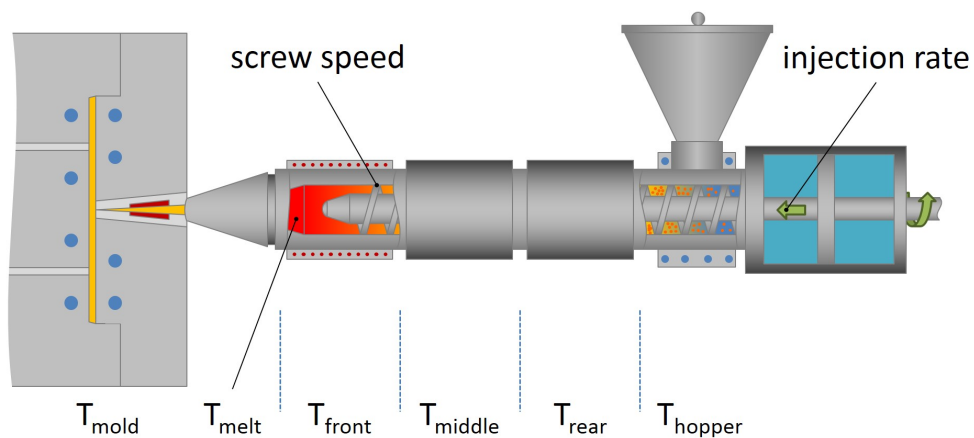
For regulatory compliance information, see Softflex 2701 3717 Purple blend [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status Commercial: Active

Availability North America

Application Overmolding

| Typical Properties                                           | Nominal Value | English Units     | Nominal Value | SI Units          | Test Method |
|--------------------------------------------------------------|---------------|-------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                              |               |                   |               |                   |             |
| Melt Flow Rate, (235 °C/1.0 kg, Procedure A)                 | 5.0           | g/10 min          | 5.0           | g/10 min          | ASTM D1238  |
| Density - Specific Gravity                                   | 0.992         | g/cm <sup>3</sup> | 0.992         | g/cm <sup>3</sup> | ASTM D792   |
| <b>Mechanical</b>                                            |               |                   |               |                   |             |
| Tensile Stress at 100%                                       |               |                   | 1.99          | MPa               | ASTM D412   |
| Tensile Stress at 300%                                       |               |                   | 3.36          | MPa               | ASTM D412   |
| Tensile Stress at 50%                                        |               |                   | 1.5           | MPa               | ASTM D412   |
| Tensile Set, (100%)                                          | 4             | %                 | 4             | %                 | ASTM D412   |
| Tensile Strength at Yield, (510 mm/min)                      |               |                   | 11.3          | MPa               | ASTM D412   |
| Tensile Elongation at Break                                  | 870           | %                 | 870           | %                 | ASTM D412   |
| Tear Strength                                                |               |                   | 52.2          | kN/m              | ASTM D624   |
| <b>Impact</b>                                                |               |                   |               |                   |             |
| Gardner Impact, (-30 °C)                                     |               |                   | 27.0          | J                 | ASTM D5420  |
| <b>Hardness</b>                                              |               |                   |               |                   |             |
| Durometer Hardness                                           |               |                   |               |                   |             |
| (Shore A)                                                    | 48            |                   | 48            |                   | ASTM D2240  |
| (Shore A, 10 sec)                                            | 45 to 55      |                   | 45 to 55      |                   | ASTM D2240  |
| <b>Additional Information</b>                                |               |                   |               |                   |             |
| Compression Set                                              |               |                   |               |                   |             |
| (100 °C, 22 hr, Method B)                                    | 89            | %                 | 89            | %                 | ASTM D395   |
| (23 °C, 22 hr, Method B)                                     | 22            | %                 | 22            | %                 | ASTM D395   |
| (70 °C, 22 hr, Method B)                                     | 73            | %                 | 73            | %                 | ASTM D395   |
| Peel Strength<br>90°                                         | 20.4          | lbf/in            |               |                   | ASTM D429   |
| Taber Abrasion Resistance, (H-22 Wheel, 1000 g, 1000 Cycles) |               |                   | 58.9          | mg                | ASTM D3389  |



| Injection Parameters   | Nominal Value | English Units | Nominal Value | SI Units |
|------------------------|---------------|---------------|---------------|----------|
| Drying Time            | 4.0 to 6.0    | hr            | 4.0 to 6.0    | hr       |
| Drying Temperature     |               |               | 54 to 66      | °C       |
| Nozzle Temperature     |               |               | 199 to 216    | °C       |
| Screw Speed            | 20 to 40      | rpm           | 20 to 40      | rpm      |
| Processing (Melt) Temp |               |               | 193 to 210    | °C       |
| Front Temperature      |               |               | 210 to 221    | °C       |
| Holding Pressure       |               |               | 1.38 to 5.52  | MPa      |
| Middle Temperature     |               |               | 171 to 193    | °C       |
| Rear Temperature       |               |               | 160 to 182    | °C       |
| Back Pressure          |               |               | 0.517 to 1.03 | MPa      |
| Mold Temperature       |               |               | 27 to 49      | °C       |
| Injection Pressure     |               |               | 3.45 to 4.14  | MPa      |

## Notes

These are typical property values not to be construed as specification limits.

## Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

## Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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