

## MATERIAL DATA SHEET

ELASTOMER QUALITY  
DESCRIPTION

TSP-LAST M 480-80A  
TPE-S based on SEBS.

| PROPERTIES                                       | TEST METHOD  | UNIT              | DEFAULT       | ACTUAL |
|--------------------------------------------------|--------------|-------------------|---------------|--------|
| Hardness                                         | ISO 868      | Shore A           | 80 +/- 3      | 80     |
| Density                                          | ISO 1183 1-A | g/cm <sup>3</sup> | 1,17 +/- 0,02 | 1,17   |
| Tensile strength at break                        | ISO 37       | MPa               | 8,2           | 8,2    |
| Elongation at break, min.                        | ISO 37       | %                 | 600           | 600    |
| 100% Modulus                                     | ISO 37       | MPa               | 2,5           | 2,5    |
| 300% Modulus                                     | ISO 37       | MPa               | 3,4           | 3,4    |
| Tear strength                                    | ISO 34-1     | kN/m              | 34            | 34     |
| Compression set at 72h/23°C                      | ISO 815      | %                 | 34            | 34     |
| Compression set at 22h/70°C                      | ISO 815      | %                 | 77            | 77     |
| Compression set at 22h/100°C                     | ISO 815      | %                 | not spec.     |        |
| Hardness change after ageing (168h/70°C)         | ISO 188      | Shore A           | not spec.     |        |
| Tensile strength change after ageing (168h/70°C) | ISO 188      | %                 | not spec.     |        |
| Elongation at break after ageing (168h/70°C)     | ISO 188      | %                 | not spec.     |        |
| Change in Hardness (from 23°C to -10°C for 22h)  | ISO 188      | Shore A           | not spec.     |        |
| Ozone resistance (100PPCM/200h/20%Stretch)       | ISO 1431     | class             | not spec.     |        |
| UV Resistance (1500h/40°C in QUV)                |              | class             | not spec.     |        |
| Brittle Temperature                              | ASTM D746    | °C                | -55           | -55    |
| Maximum Dynamic Service Temperatur               |              | °C                | 90            | 90     |
| Maximum Static Service Temperatur                |              | °C                | 110           | 110    |

### ADDITIONAL INFORMATION

TSP-LAST is a special modified thermoplastic TPE-material based on SEBS and polyolefin with very good properties concerning compression set, UV- and ageing-stability and excellent recovery.