



get the difference

BADAFLEX® | UL TPE-S 40A FR01

(TPE-SEBS)-FR

Injection moulding grade Styrene-Ethylen-/Butadien-Styrene Copolymer; UL listed halogenated flame retardant VO according to RoHS standard

| Properties | Test conditions | Test method | Unit | dry as molded |
|-------------------------------------|--|--|--|--------------------|
| Physical properties | | | | |
| Hardness | | DIN ISO 7619-1 DIN ISO 7619-1 | Shore A Shore D | 40 - |
| Density | | ISO 1183 | g/cm ³ | 1.30 |
| Overmolding capability | | | | PP |
| Mechanical Properties | | | | |
| Tensile Strength | Parallel, 200 mm/min Across, 200 mm/min | DIN 53504 DIN 53504 | MPa MPa | 4.5 6 |
| Elongation at break | Parallel, 200 mm/min Across, 200 mm/min | DIN 53504 DIN 53504 | % % | 650 700 |
| Tear Strength | Parallel Across | DIN ISO 34 DIN ISO 34 | N/mm N/mm | 9 - |
| Abrasion loss | | DIN ISO 4649 | mm ³ | - |
| Thermal Properties | | | | |
| Compression set | 23 °C/72 h 70 °C/24 h 100 °C/24 h | DIN ISO 815-1 DIN ISO 815-1 DIN ISO 815-1 | % % % | 31 40 70 |
| Thermal conductivity | Test plate 2 mm | DIN 52612-1 | W/(m*K) | - |
| Flammability | | UL94 UL94 UL94 UL94 | Wall thickness Rating Wall thickness Rating | 0,4 V-0 3,0 V-0 |
| Glow wire test GWIT | | IEC-60695-2-13 IEC-60695-2-13 IEC-60695-2-13 IEC-60695-2-13 | Wall thickness mm Temperature °C Wall thickness mm Temperature °C | - - - - |
| Glow wire test GWFI | | IEC-60695-2-12 IEC-60695-2-12 IEC-60695-2-12 IEC-60695-2-12 | Wall thickness mm Temperature °C Wall thickness mm Temperature °C | - - - - |
| Electrical Properties | | | | |
| Spec. Volume Resistivity | | IEC-62631-3-1 | Ohm*cm | - |
| Spec. Surface Resistivity | | IEC-62631-3-2 | Ohm | - |
| Other Data | | | | |
| Melt volume rate (MVR) | Value Temperature Test load | ISO 1133 ISO 1133 ISO 1133 | cm ³ /10min °C kg | - - - |
| Processing injection molding | | | | |
| Melt temperature | | | °C | 190 - 220 |
| Mold temperature | | | °C | 20 - 40 |



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Injection moulding grade Styrene-Ethylen-/Butadien-Styrene Copolymer; UL listed halogenated flame retardant V0 according to RoHS standard

| Properties | Test conditions | Test method | Unit | dry as molded |
|-------------------------|-----------------|-------------|------|---------------|
| Guide Value Moisture | | | % | < 0.1 |
| Drying temperature | | | °C | 60 - 70 |
| Guide Value Drying time | | | h | 2 - 3 |

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Legend

- = not tested
NB = No break

Based on our current state of knowledge, this data represents reference values and, unless otherwise stated, stands for uncoloured material. Therefore, it does not constitute a warranty of certain properties, more particularly it is no material specification. It is the responsibility of the processors to check the suitability of the material for a particular application as well as compliance with statutory regulations and intellectual property rights. The data stated above may be modified at any time without prior notice. The information does not imply any contractual obligation on our part, any liability is expressly excluded.