**Technical Data Sheet**

# BADAPRENE® | TPV 50A 1068 UV

PP+EPDM-COMPOUND

Easy flow injection moulding grade; good UV stability; low fogging; for automotive applications

| Properties | Test conditions | Test method | Unit | dry as molded |
|---|---|---|---|---|
| **Physical properties** | | | | |
| Hardness | | DIN ISO 48-4<br>DIN ISO 48-4 | Shore A<br>Shore D | 52<br>- |
| Density | | ISO 1183 | g/cm³ | 0.96 |
| Overmolding capability | | | | - |
| **Mechanical Properties** | | | | |
| Tensile Strength | Parallel, 200 mm/min<br>Across, 200 mm/min | DIN 53504<br>DIN 53504 | MPa<br>MPa | 4.0<br>- |
| Elongation at break | Parallel, 200 mm/min<br>Across, 200 mm/min | DIN 53504<br>DIN 53504 | %<br>% | 490<br>- |
| Tear Strength | Parallel<br>Across | DIN ISO 34<br>DIN ISO 34 | N/mm<br>N/mm | 18<br>- |
| Abrasion loss | | DIN ISO 4649 | mm³ | - |
| **Thermal Properties** | | | | |
| Compression set | 23 °C/72 h<br>70 °C/24 h<br>100 °C/24 h | DIN ISO 815-1<br>DIN ISO 815-1<br>DIN ISO 815-1 | %<br>%<br>% | -<br>18<br>- |
| Thermal conductivity | Test plate 2 mm | DIN 52612-1 | W/(m*K) | - |
| Flammability | | UL94<br>UL94<br>UL94<br>UL94 | Wall thickness<br>Rating<br>Wall thickness<br>Rating | -<br>-<br>-<br>- |
| Glow wire test GWIT | | IEC-60695-2-13<br>IEC-60695-2-13<br>IEC-60695-2-13<br>IEC-60695-2-13 | Wall thickness mm<br>Temperature °C<br>Wall thickness mm<br>Temperature °C | -<br>-<br>-<br>- |
| Glow wire test GWFI | | IEC-60695-2-12<br>IEC-60695-2-12<br>IEC-60695-2-12<br>IEC-60695-2-12 | Wall thickness mm<br>Temperature °C<br>Wall thickness mm<br>Temperature °C | -<br>-<br>-<br>- |
| **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<br>Temperature<br>Test load | ISO 1133<br>ISO 1133<br>ISO 1133 | cm³/10min<br>°C<br>kg | -<br>-<br>- |
| **Processing injection molding** | | | | |
| Melt temperature | | | °C | 190 - 220 |
| Mold temperature | | | °C | 20 - 40 |
| Guide Value Moisture | | | % | < 0.1 |
| Drying temperature | | | °C | 60 - 70 |
| Guide Value Drying time | | | h | 2 - 3 |

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