



# Utechllan UE-90AE10FR

UE grade series, ether / Shore hardness A 90 - 94

extrusion molding grade; excellent hydrolysis resistance; good mechanical properties; against microbial attack; flame-retardant;

| Property                           | Test Condition | Unit  | Standard   | Typical Value |      |         |
|------------------------------------|----------------|-------|------------|---------------|------|---------|
| Mechanical properties (23 °C)      |                |       |            |               |      |         |
| shore hardness, method A           |                | -     | ISO 868    |               | 91   |         |
| Ultimate tensile strength          | 200 mm/min     | MPa   | DIN 53504  |               | 30.0 |         |
| Strain at break                    | 200 mm/min     | %     | DIN 53504  |               | 550  |         |
| Stress at 100 % strain             | 200 mm/min     | MPa   | DIN 53504  |               | 8.0  |         |
| Stress at 300 % strain             | 200 mm/min     | MPa   | DIN 53504  |               | 15.0 |         |
| Abrasion resistance                |                | mm³   | ISO 4649   |               | 60   |         |
| Tear propagation resistance        | 200 mm/min     | kN/m  | ISO 34-1   |               | 80   |         |
| Other properties (23 °C)           |                |       |            |               |      |         |
| Density                            |                | kg/m³ | ISO 1183-1 |               |      | 1152    |
| Molding conditions                 |                |       |            |               |      |         |
| Injection molding-Melt temperature |                | °C    | -          | 190 - 210     |      |         |
| Injection molding-Mold temperature |                | °C    | -          |               |      | 20 - 40 |
| Extrusion-Melt temperature         |                | °C    | -          | 175 - 195     |      |         |
| Maximum drying temperature         |                | °C    | -          |               |      | 110     |

