| Product | Curing mechanism | Characteristics | Color | Viscosity at 1/sec [mPas] DIN EN ISO 3219 / 25 °C | Viscosity at 10/sec [mPas] DIN EN ISO 3219 / 25 °C | Hardness Shore A ISO 48-4 | Tensile strength [N/mm²] ISO 37 Typ 1 | Elongation at break [%] ISO 37 Typ 1 | Tear resistance [N/mm] ASTM D 624 B | Processing | BfR XV, Silicones* | FDA 175.300 coatings* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Rubber Dispersions** | | | | | | | | | | | | |
| ELASTOSIL® RD 6600 F | Addition | Dry surface, solvent-based (60 % xylene) | Transparent | 115,000 | 45,000 | 60 | 5.5 | 350 | 12.0 | Addition of 3 % ELASTOSIL® CROSSLINKER 525 or 1 % WACKER® CROSSLINKER W required | - | - |
| WACKER® FINISH CT 51 L | Condensation | Silky and flexible coatings, solvent-based (75% toluene) | Transparent | 31,000 | 19,000 | - | - | - | - | Addition of WACKER® INHIBITOR PT 88 and 1 % WACKER® CATALYST C05 required | + | + |
| **High Temperature Curing Silicone Rubber** | | | | | | | | | | | | |
| ELASTOSIL® LR 3001/55 FR A/B | Addition | Flame retardant (UL 94: V-0) | Grey | 250,000 | 140,000 | 55 | 6.3 | 300 | 15.0 | A/B-System, mixing ratio A:B = 1:1 | - | - |
| ELASTOSIL® LR 6200 A/B | Addition | Low viscosity, dry surface | White | 15,000 | 9,000 | 40 | 2.8 | 210 | 4.6 | A/B-System, mixing ratio A:B = 1:1 | - | - |
| ELASTOSIL® LR 3003/20 TR | Addition | General purpose, excellent mechanical properties | Transparent | 360,000 | 210,000 | 22 | 8.3 | 870 | 24.0 | A/B-System, mixing ratio A:B = 1:1 | + | + |
| ELASTOSIL® LR 3003/30 | Addition | General purpose, excellent mechanical properties | Transparent | 210,000 | 100,000 | 30 | 7.0 | 610 | 21.0 | A/B-System, mixing ratio A:B = 1:1 | + | + |
| ELASTOSIL® LR 6240 A/B | Addition | Good flexibility, high modulus | Transparent | 30,000 | 20,000 | 30 | 1.7 | 290 | 4.9 | A/B-System, mixing ratio A:B = 1:1 | + | + |
| ELASTOSIL® LR 6250 F | Addition | General purpose | Transparent | 53,000 | 32,000 | 36 | 5.0 | 350 | 10.4 | Addition of 3 % ELASTOSIL® CROSSLINKER 525 or 1 % WACKER® CROSSLINKER W | - | + |
| ELASTOSIL® LR 6260 A/B | Addition | High dielectric strength | Ivory | 57,000 | 31,000 | 39 | 5.1 | 380 | 8.9 | A/B-System, mixing ratio A:B = 1:1 | - | + |
| ELASTOSIL® LR 6320 F | Addition | General purpose, low viscosity also with adhesion promoter | Transparent | 28,000 | 23,000 | 20 | 2.4 | 450 | 4.3 | Addition of 10 % ELASTOSIL® CROSSLINKER SX or 3 % ELASTOSIL® CROSSLINKER 525 | + | + |
| ELASTOSIL® LR 6360 F | Addition | General purpose | Transparent | 38,000 | 28,000 | 60 | 5.0 | 150 | 6.1 | Addition of 5 % WACKER® CROSSLINKER W | + | + |
| ELASTOSIL® NT 76 | Addition | Newtonian rheology | Transparent | 40,000 | 40,000 | 20 | 0.7 | 160 | 2.3 | Addition of 3 % ELASTOSIL® CROSSLINKER 525 or 6% WACKER (R) CROSSLINKER HX required | + | + |
| ELASTOSIL® R 401/40 | Peroxide | General purpose | Transparent | n. a. | n. a. | 40 | 10.0 | 580 | 28.0 | Addition of 1.5 % ELASTOSIL® AUX CURING AGENT E or 0.7 % ELASTOSIL® CURING AGENT C1 required | +** | +** |
| ELASTOSIL® R *plus* 4001/40 | Addition | General purpose | Transparent | n. a. | n. a. | 40 | 11.8 | 930 | 38.0 | Ready to use system | + | + |
| **Room Temperature Curing Silicone Rubber** | | | | | | | | | | | | |
| ELASTOSIL® E43 N | Condensation | General purpose, excellent adhesion, tin-free | Transparent | 380,000 | 260,000 | 35 | 4.5 | 350 | 12.0 | Ready to use system | + | + |
| ELASTOSIL® E50 N | Condensation | General purpose, self leveling, tin-free | Transparent | 63,000 | 53,000 | 35 | 1.5 | 150 | 5.0 | Ready to use system | + | + |
| ELASTOSIL® E91 | Condensation | Anti-slip surface, fast curing with steam, tin-free | Transparent | 100,000 | 60,000 | 20 | 1.2 | 350 | - | Ready to use system | - | - |
| ELASTOSIL® E92 N | Condensation | Anti-slip surface, fast skin formation at room temperature, tin-free | Transparent | 160,000 | 90,000 | 20 | 1.5 | 350 | - | Ready to use system | - | - |
| **Top Coats** | | | | | | | | | | | | |
| ELASTOSIL® 47007 | Addition | Low coefficient of friction, solvent-free | Ivory | 16,000 | 7,000 | - | - | - | - | Addition of 3 % ELASTOSIL® CROSSLINKER W or 5 % WACKER® CROSSLINKER HX required | - | - |
| ELASTOSIL® RD 3151 F | Addition | Glossy varnish, easy to clean, solvent-based (50% white spirits) | Transparent | 20,000 | 3,500 | - | - | - | - | Addition of 3 % WACKER® CROSSLINKER W required | - | - |
| ELASTOSIL® RD 6620 F | Addition | Matt varnish, solvent-based (50% xylene) | Colorless, opaque | 330,000 | 75,000 | - | - | - | - | Addition of 1 % WACKER® CROSSLINKER W required | - | - |

* Valid for the silicone base. Additives have to be evaluated separately!
** Valid after post-curing (4h/200 °C)