

Warmhärtende Epoxidharz-Systeme

| Produkte | Gebrauchsdauer bei 23 °C [min] | Gelierzzeit bei 80 °C [min] | Empfohlene Härtung [°C] | Wärmeformbeständigkeit Tg [°C] <small>IEC 1006, DSC</small> | Biegefestigkeit [Mpa] <small>ISO 178</small> | E-Modul Biegeversuch [Mpa] <small>ISO 178</small> | Bruchdehnung Biegeversuch [%] <small>ISO 178</small> | Bruchmechanik K _{1C} / G _{1C} [Mpa/√m , J/m ²] <small>Bend notch</small> |
|---|--------------------------------|-----------------------------|----------------------------|--|---|--|---|---|
| Gebrauchsdauer < 10 Stunden | | | | | | | | |
| Harz XU 3508 / Aradur 22962 | 90-150 | 24-40 | 1 h / 80 + 2 h / 150 | 144-154 | 120-135 | 2'700-2'900 | 8.0-10.0 | 0.95-1.15 / 340-380 |
| Araldit® LY 564 / Aradur 22962 | 120-180 | 20-30 | 15 min / 120 + 2 h / 150 | 134-150 | 120-135 | 2'500-2'750 | 9.0-11.0 | 0.80-0.95 / 200-260 |
| Araldit LY 556 / Aradur 22962 | 120-180 | 18-22 | 15 min / 120 + 2 h / 150 | 148-158 | 130-136 | 2'550-2'800 | 7.5-10.0 | 0.68-0.78 / 140-175 |
| Harz XB 3585 / Aradur 22962 | 300-390 | 16-20 | 10 min / 80 + 20 min / 100 | 150-158 | 130-140 | 2'800-3'000 | 7.5-9.0 | 0.65-0.75 / 130-160 |
| Harz XU 3508 / Aradur 2954 | 300-390 | 36-56 | 1 h / 80 + 8 h / 160 | 150-158 | 125-135 | 2'600-2'800 | 7.0-8.0 | 0.85-1.05 / 250-290 |
| Araldit LY 564 / Aradur 2954 | 480-600 | 35-45 | 1 h / 80 + 8 h / 140 | 143-148 | 120-124 | 2'600-2'800 | 6.5-7.5 | 0.68-0.76 / 149-181 |
| Gebrauchsdauer < 40 Stunden | | | | | | | | |
| Harz XB 3292 / Aradur 2954 | 600-840 | 34-44 | 2 h / 100 + 2 h / 200 | 220-230 | 115-125 | 3'050-3'250 | 4.4-4.49 | 0.53-0.58 / 75-85 |
| Harz XU 3508 / Härter XB 3473 | 1'680-1'980 | > 600 | 1 h / 120 + 2 h / 200 | 160-168 | 110-125 | 2'500-2'700 | 6.0-7.0 | 1.20-1.40 / 420-480 |
| Araldit LY 556 / Härter XB 3473 | 1'920-2'220 | > 600 | 2 h / 120 + 4 h / 180 | 185-195 | 110-120 | 2'700-2'900 | 5.5-6.5 | 0.70-0.85 / 190-220 |
| Gebrauchsdauer > 40 Stunden | | | | | | | | |
| Araldit LY 564 / Aradur 917 / Beschleuniger 960-1 | > 2'880 | 30-40 | 4 h / 80 + 4 h / 120 | 122-128 | 140-150 | 3'000-3'200 | 6.0-7.0 | 0.59-0.70 / 100-125 |
| Harz XU 3508 / Aradur 917 / Beschleuniger DY 070 | > 2'880 | 128-160 | 4 h / 80 + 8 h / 140 | 135-145 | 140-150 | 2'900-3'200 | 5.7-6.7 | 0.85-0.95 / 210-240 |
| Araldit LY 556 / Aradur 917 / Beschleuniger DY 070 | > 2'880 | 140-160 | 4 h / 80 + 8 h / 140 | 145-153 | 125-135 | 3'100-3'300 | 6.0-8.5 | 0.56-0.60 / 88-96 |
| Araldit LY 556 / Aradur 906 / Beschleuniger DY 070 | > 2'880 | 224-256 | 2 h / 120 + 8 h / 160 | 160-165 | 100-140 | 2'900-3'100 | 4.0-7.0 | 0.60-0.75 / 100-215 |
| Araldit CY 179 MA / Aradur 917 / Beschleuniger DY 070 | > 2'880 | 120-160 | 2 h / 120 + 6 h / 160 | 188-193 | 80-105 | 2'950-3'150 | 2.3-3.6 | 0.50-0.54 / 72-84 |
| Harz XB 3292 / Härter XB 3473 | > 2'880 | 360-420 | 2 h / 100 + 2 h / 200 | 195-203 | 98-108 | 3'050-3'250 | 4.1-4.6 | 0.50-0.55 / 70-75 |
| Harz XB 3563 / Aradur 917 / Beschleuniger DY 070 | > 3'000 | 120-160 | 1 h / 80 + 6 h / 180 | 198-206 | 90-110 | 2'900-3'050 | 2.8-4.5 | 0.45-0.50 / 60-65 |

* IEC 1006, DSC, 10 K/min, ** Bruchmechanische Eigenschaften (K_{1C} / G_{1C}): CG Methode PM 258-0/90 (Bend notch)