

VESTAMID® compounds for straight and corrugated monowall fuel lines

| Applications | Method | Unit | Diesel and gasoline fuel systems | | | | | | Hot diesel fuel systems | | |
|---|------------------|-------------------|----------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|--------------------------|-------------------------|-------------------------|-------|
| VESTAMID® | | | L2140 | L2121 | L2122 | L2123 | L2124 | X7293 | LX9008 | LX9013 | |
| Designations | ISO 1874-1 | | PA12, EHL, 22- 010 | PA12-P, EHL, 22- 007 | PA12-P, EHL, 22- 005 | PA12-P, EHL, 22- 004 | PA12-P, EHL, 22- 004 | PA12-HIP, EHL, 22-004 | PA12, EHL, 22-010 | PA12-HIP, EHL,22-004 | |
| | DIN 73378 | | PA12-HL | | | PA12-PHL | PA12-PHL | PA12-HIPHL Typ 1 | PA12-HL | PA12-HIPHL | |
| Density, 23 °C | ISO 1183 | g/cm ³ | 1.01 | 1.02 | 1.03 | 1.03 | 1.03 | 1.02 | 1.01 | 1.02 | |
| Melting point (DSC 2 nd heating) | ISO 11357 | °C | 178 | 176 | 173 | 171 | 171 | 172 | 176 | 172 | |
| Stress at yield | ISO 527- 1/-2 | MPa | 47 | 37 | 35 | 27 | 26 | 27 | 42 | No yield point | |
| Strain at yield | | % | 5 | 20 | 26 | 30 | 31 | 32 | 5 | | |
| Stress at 50% strain | | | | | | | | | | 30 | |
| Strain at break | | % | > 200 | > 200 | > 200 | > 200 | > 200 | > 200 | > 200 | > 150 | > 150 |
| Tensile modulus | | MPa | 1400 | 700 | 490 | 420 | 400 | 400 | 400 | 1450 | 400 |
| Test on tubes 8 x 1 mm | | | | | | | | | | | |
| Extractables from granules | ISO 6427 | Wt. % | 1.3 | 6.0 | 10.5 | 11.7 | 14.3 | 12.0 | 1.75 | 12.0 | |
| Burst pressure test, 23 °C | DIN 53758 | bar | 130 | 100 | 90 | 70 | 71 | 71 | 126 | 71 | |
| 100 °C | | | 40 | 38 | 33 | 30 | 32 | 30 | 38 | 30 | |
| 130 °C | | | 28 | 26 | | 20 | 22 | 20 | 27 | 20 | |
| 150 °C | | | 19 | | | | | | | | |
| Cold impact test, -40 °C | SAE J2260 | | N | N | N | N | N | N | N | N | |
| -40 °C | DIN 73378 | | N | N | N | N | N | N | N | N | |

All values are determined on black compounds; N = no break