# Technical data

# nora® nTx

| | Test method | Requirements | Average test results from running production | |
|---|---|---|---|---|
| | | | noraplan® | norament® |
| | | | convia nTx**<br>lona nTx**<br>sentica nTx<br>signa nTx<br>stone nTx** | 926 arago nTx<br>926 castello nTx<br>926 grano nTx<br>926 pado nTx**<br>926 satura nTx** |
| **CE conformity** | **EN 14041** | | ← Manufacturer: nora systems GmbH, D-69469 Weinheim → | |
| DoP-No. | EN 14041 | | 0027 | 0031 |
| Thermal conductivity | EN 10456 | λ = 0.17 W/(m·K) | ← Fulfilled → | |
| Dynamic coefficient of friction | EN 13893 | DS | ← Fulfilled → | |
| Reaction to fire | EN 13501-1 | | $C_{fl}$-s1, bonded | $C_{fl}$-s1, bonded |
| **Properties acc. to EN 1817** | | | | |
| Thickness | EN ISO 24346 | Mean value ± 0.15 mm according to EN 1817 | 2.1 mm or 3.1 mm** | 3.6 mm |
| Dimensional stability | EN ISO 23999 | ± 0.4 % | ± 0.3 % | ± 0.2 % |
| Cigarette-burn resistance | EN 1399 | Procedure A (stubbed out) ≥ level 4<br>Procedure B (burning) ≥ level 3 | ← Fulfilled → | |
| Flexibility | EN ISO 24344, procedure A | Mandrel diameter 20 mm, no fissuring | ← Fulfilled → | |
| Hardness | ISO 48-4 | ≥ 75 Shore A | 92 Shore A | 82 Shore A |
| Residual indentation | EN ISO 24343 | noraplan® nTx:<br>Mean value ≤ 0.15 mm at thickness < 2.5 mm<br>Mean value ≤ 0.20 mm at thickness ≥ 2.5 mm<br>norament® nTx:<br>Mean value ≤ 0.25 mm at thickness ≥ 3.0 mm<br>Mean value ≤ 0.20 mm at thickness < 3.0 mm | 0.05 mm | 0.15 mm |
| Abrasion resistance at 5 N load | ISO 4649, procedure A | ≤ 250 $mm^3$ | 150 $mm^3$ | 115 $mm^3$ |
| Colour fastness to artificial light | ISO 105-B02, procedure 3, test conditions 6.1 a) | At least 6 on the blue scale, ≥ 3 on the grey scale | ← Grey scale ≥ 3 acc. to ISO 105-A02 → | |
| Classification | EN ISO 10874 | Commercial/Industrial | 2.1 mm: 34/42<br>3.1 mm: 34/43 | 34/43 |
| **Additional technical properties** | | | | |
| Weight | EN ISO 23997 | | 2.1 mm: ~ 3.36 kg/$m^2$<br>3.1 mm: ~ 5.08 kg/$m^2$ | ~ 5.40 kg/$m^2$ |
| Slip resistance | DIN EN 16165 | According to DGUV 108-003 | R 9*<br>R 10* (reflection-breaking surface, lona nTx) | R 9*<br>R 10* (arago nTx, castello nTx, grano nTx with cubic structure, pado nTx) |
| Improvement in footfall sound absorption | ISO 10140-3 | | 2.1 mm: 4 dB<br>3.1 mm: 5 dB | 8 dB |
| Effect of chemicals | EN ISO 26987 | Depending on concentration and time of exposure | ← Resistant[A] → | |
| Electrical insulation properties | EN 1081 R1 | | > $10^{10}$ Ohm | > $10^9$ Ohm |
| Electrostatic behaviour when walked upon | EN 1815 | | ← Antistatic, charging in case of rubber soles < 2 kV → | |
| Effect of a castor chair | EN ISO 4918 | | ← Suitable if castor wheels, type W, according to EN 12529 are used → | |
| **Fire behaviour/smoke behaviour** | | **Fulfills the requirements** | | |
| Fire behaviour | EN 13501-1 | | $C_{fl}$-s1, bonded | $C_{fl}$-s1, bonded |
| | EN 45545 | Hazard Level | HL1* | – |
| Fire behaviour | ASTM E-648 / ISO 9239-1 | Federal Railroad Administration | Class 1 (≥ 0.50 W/$cm^2$)* | – |
| Smoke density | ASTM E-662 | | After 1.5 minutes < 100, after 4 minutes < 200* | – |
| Toxicity of fire gases | DIN 53436 | | Carbonisation gases are non-toxic | Carbonisation gases are non-toxic |
| **Adhesive characteristics** | | | | |
| Description | | | ← Pressure-sensitive hot melt adhesive → | |
| Softening range | | | ← approx. 122 - 134 °C → | |
| VOC | | | ← 0 % → | |

* Tested and certificated by an independent testing institute.
** Minimum quantities required.
A) In case of increased impact of oils, greases, acids, alkalis and other aggressive chemicals please contact us.

EN 1817: Specification for homogeneous and heterogeneous smooth elastomer floor coverings

Colour variations due to different production batches as well as technical alterations to improve the product have to be accepted.

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