



TPO-Fleece Back Data-Sheet

| Technical features (tolerances as per EN 13956 and/or UEAtc Directives) | | | | | | |
|---|-----------------|------|---|----------|----------|----------|
| Features | EN Standards | U.M. | Values | | | |
| Standard thickness (-5/+10%) | 1849-2 | Mm | 1.2 | 1.5 | 1.8 | 2.0 |
| Tensile properties | | | | | | |
| Tensile strength L/T | 12311-2 | N/mm | 16/15 | | | |
| Elongation at break L/T | 12311-2 | % | 700/700 | | | |
| Dimensional stability | 1107-2 | % | ≤ 0.5 | | | |
| Cold flexibility | 495/5 | °C | ≤ -40 (not tested at lower temperatures) | | | |
| Tear resistance L/T* | 12310/1 | N | 450/400* | 650/600* | 800/750* | 900/850* |
| Water vapour permeability (resistance factor μ) | 1931 | | 90.000 | | | |
| Resistance to static loading* | 12730/B | Kg | ≤ 25* | | | |
| Resistance to impact* | 12691/B | mm | ≤ 1800* | | | |
| Hail resistance | 13583 | m/s | ≤ 30 (Not tested at higher speeds) | | | |
| Water tightness (60 kPa) | 1928 | | Absolute | | | |
| Joint strength | | | | | | |
| Tensile strength | 12317-2 | N/cm | Compliant (specimen falls outside bond area) | | | |
| Peeling | 12317-2 | N/cm | ≤ 58 | | | |
| Durability | | | | | | |
| Resistance to artificial UV light | 1297-5000 h | | No surface damages or significant changes in cold flexibility as per EN 495/5 | | | |
| Heat aging in area | | | | | | |
| Change in tensile strength | 12311-2 | Δ % | -5 | | | |
| Change in elongation at break | 12311-2 | Δ % | -5 | | | |
| Wind load resistance (wind suction test) (UEAtc) | | | | | | |
| Mechanically retained system | Pa | | ≤6000 | | | |
| Reaction to fire | 13501-1 | | Class F | | | |
| Resistance to algae and microorganisms | ISO 846 Level 2 | | Compliant | | | |
| Root resistance | 13948 | | Passes the test | | | |

*The values indicated refer to the TPO / FPA membrane without nonwoven polyester fabric backing, except for the values marked with an asterisk (*) , that refer to the finished product.

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