

Product Technical Information

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PARADIENE 35 S R4

Product Description and uses

Very high performance reinforced SBS elastomeric bitumen membrane for waterproofing works used as first layer for up stands or base layer of multi-layers system for not accessible roof, technical roofs or roofs under heavy protection. This product is designed for new works and refurbishment works on approved substrates.

Product Approvals:

Paradiene 35 S R4 is approved by CSTB (Paradiene S Document Technique d'Application 5/11-2167) and BBA (Paradiene Agreement Certificate 93/2877) for use in Siplast insulated steel roof deck constructions and insulated and non-insulated concrete roof deck constructions as a fully or partially bonded, two layer, built-up roof waterproofing system on flat and pitched roofs or a loose-laid and ballasted, two layer, roof waterproofing system on flat roofs.

Paradiene 35 S R4 meets or exceeds the requirements of ASTM D 6164 Grade S, for SBS-modified bituminous sheet materials using polyester reinforcements.

Composition

| |
|---|
| Top surfacing: polyethylene film |
| Bitumen compound: SBS (Styrene-Butadiene-Styrene) elastomeric bitumen |
| Reinforcement: Polyester 180 gr/m ² |
| Back surfacing: Silica Parting Agent. |



Dimensions

| Value | Nominal |
|---------------------------------------|---------|
| Thickness on longitudinal seldge (mm) | 3.7 |
| Thickness main surface (mm) | 3.7 |
| Roll length and width (m) | 8 x 1 |

Packaging

| | |
|--|------|
| Rolls quantity per truck pallet | 28 |
| Rolls quantity per container pallet | 27 |
| Rolls quantity per wooden box | 25 |
| Nominal weight / m ² (kg/m ²) | 4.6 |
| Nominal weight / roll (kg) | 37.1 |

ISO 9001 REFERENCE DOCUMENT

Our company has been awarded the ISO 9001 certificate for all its establishments in France.

Our company reserves the right to modify its composition as a result of technological and experimental improvements.

To obtain the up-date technical data sheet, please contact Siplast



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Physical and Mechanical Properties

According with EN 13707

| Property (as Manufactured) | Test Method | Units | Nominal values |
|---|-------------|--------|----------------|
| Tensile strength at max | EN 12 311-1 | N/50mm | 700 x 550 |
| Elongation at max | EN 12 311-1 | % | 40 x 45 |
| Nail tearing resistance | EN 12 310-1 | N | 300 x 320 |
| Cold temperature flexibility | EN 1109 | °C | ≤ - 20 |
| Heat flow test | EN 1110 | °C | ≥ 100 |
| Dimensional stability | EN 1107-1 | % | ≤ - 0.5 |
| Static Puncture resistance (soft substrate) | EN 12730 A | kg | 20 |
| Static Puncture resistance (hard substrate) | EN 12730 B | kg | 20 |
| Impact resistance (hard substrate) | EN 12691-A | mm | 1000 |
| Impact resistance (soft substrate) | EN 12691 B | mm | 1250 |
| Waterproofing | EN 1928 | - | Pass |

According with ASTM D 5147

| Property (as Manufactured) | Test Method | Units | Nominal values |
|------------------------------|------------------------|-------|----------------|
| Tensile strength at max | ASTM D 5147 section 6 | kN/m | 13.5 x 10.8 |
| Elongation at max | ASTM D 5147 section 6 | % | 54 x 60 |
| Cold temperature flexibility | ASTM D 5147 section 11 | °C | ≤ - 20 |
| Heat flow test | ASTM D 5147 section 15 | °C | ≥ 100 |
| Dimensional stability | ASTM D 5147 section 10 | % | ≤ - 0.5 |

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Other informations

| | |
|--------------------------|--|
| Values | Where 2 values for given characteristics are shown, the first is for longitudinal direction and the second is for the cross direction. |
| Tolerances | The average values derived from standard tests and are subject to the usual production variations. The indicated average values comply with the UEAtc standard and EN 13707. The nominal value tolerances comply with the UEAtc standards. Some slight variations can be noticed as the values are based on the average values obtained from several plants. |
| Modification(s) | Our company reserves the right to modify its composition as a result of technologic and experiments improvements. This product data sheet supersedes the previous edition, to obtain the up-date technical data sheet, please contact our technical department. |
| Hazardous classification | It is not classified as dangerous according to the international regulation (ADR, RID, IATA, et RTMDR) |
| Divers | This product is only a product technical data sheet, regarding each waterproofing design, please, consult the concerned technical agreement and in case of doubt contact our technical department. |
| Storage | This product packaged in rolls set up vertically on pallet or wooden box. It must be stored vertically under shelter, away from heat sources. |

Generalities

| | |
|-------------|--|
| Using | The generalities about the product using are set out in the ZSA STANDARD |
| Application | The generalities about the product application are set out in the ZTA STANDARD |
| Overlaps | Current building practices concerning overlaps are set out in the ZRA STANDARD |
| Slopes | Current building practices concerning slopes are set out in the ZPA STANDARD |