

Compound Data Sheet

FM1613

Cream

General description

Natural rubber compound.
Conventional sulphur cure system.
Application range: bottle pack disks.

Physical properties

| | | | | |
|-------------------------|-------------------|---|-------|---------|
| Hardness | °Shore A | ISO 7619 | 62 | ± 5 |
| Density | g/cm ³ | ISO 2781 | 1.395 | ± 0.025 |
| Ash | % | Internal Method(s): Calc. 4h @ 700°C | 47.5 | ± 2.0 |
| Compression Set | % | ISO 815 | 50 | max. |
| Tensile Strength | N/mm ² | ISO 37 | 10 | min. |

Chemical properties

Tests performed according to European Pharmacopoeia, Section 3.2.9: 100 cm² rubber surface was autoclaved in 200ml distilled water for 30 min. at 121°C (Solution S).

| Criterion | Test Object | Units | Limits | Typical Results |
|-------------------------------|--------------------|----------------------------------|---------------------|------------------------|
| Appearance | Sol. S | NTU | Type I: 6.0* | 2.5 |
| | | | Type II: 18* | |
| Color | Sol. S | | See test procedure | pass |
| Alkaline Matter | Sol. S (20 ml) | ml 0.01M HCl | 0.8 | 0.50 |
| | | ml 0.01M NaOH | 0.3 | |
| Absorption (220-360nm) | Sol. S | absorbance | Type I: 0.2 | 1.3 |
| | | | Type II: 4.0 | |
| Reducing Substances | Sol. S (20 ml) | ml 0.002M KMnO ₄ | Type I: 3.0 | 2.07 |
| | | | Type II: 7.0 | |
| Heavy Metals | Sol. S | ppm Pb ²⁺ | 2 | <2 |
| Zinc | Sol. S | ppm Zn ²⁺ | 5.0 | 0.23 |
| Ammonium | Sol. S | ppm NH ₄ ⁺ | 2 | <2 |
| Evaporation Residue | Sol. S (50 ml) | mg | Type I: 2.0 | 0.1 |
| | | | Type II: 4.0 | |
| Sulphide | 20 cm ² | mg S ²⁻ | 0.02 | <0.02 |

*By definition corresponding with reference suspensions II and III resp.

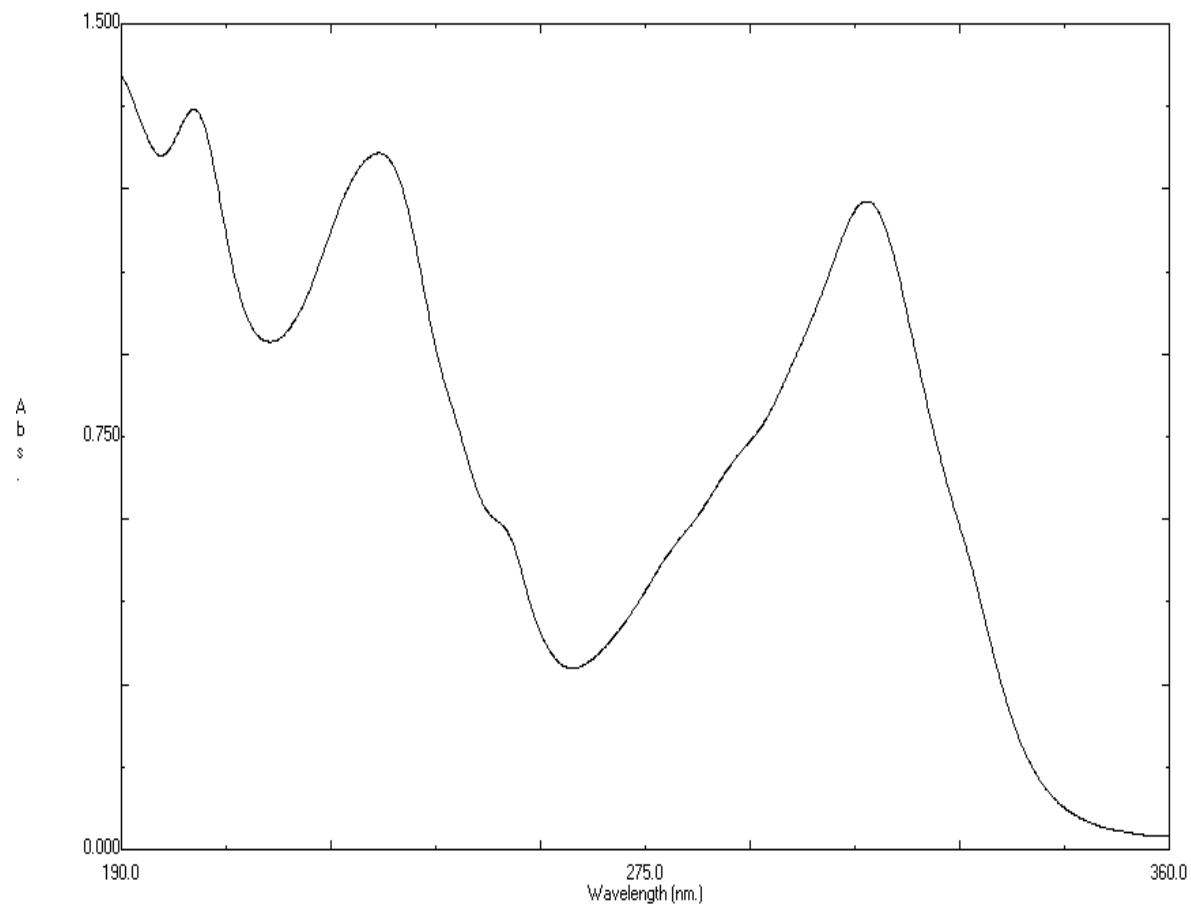
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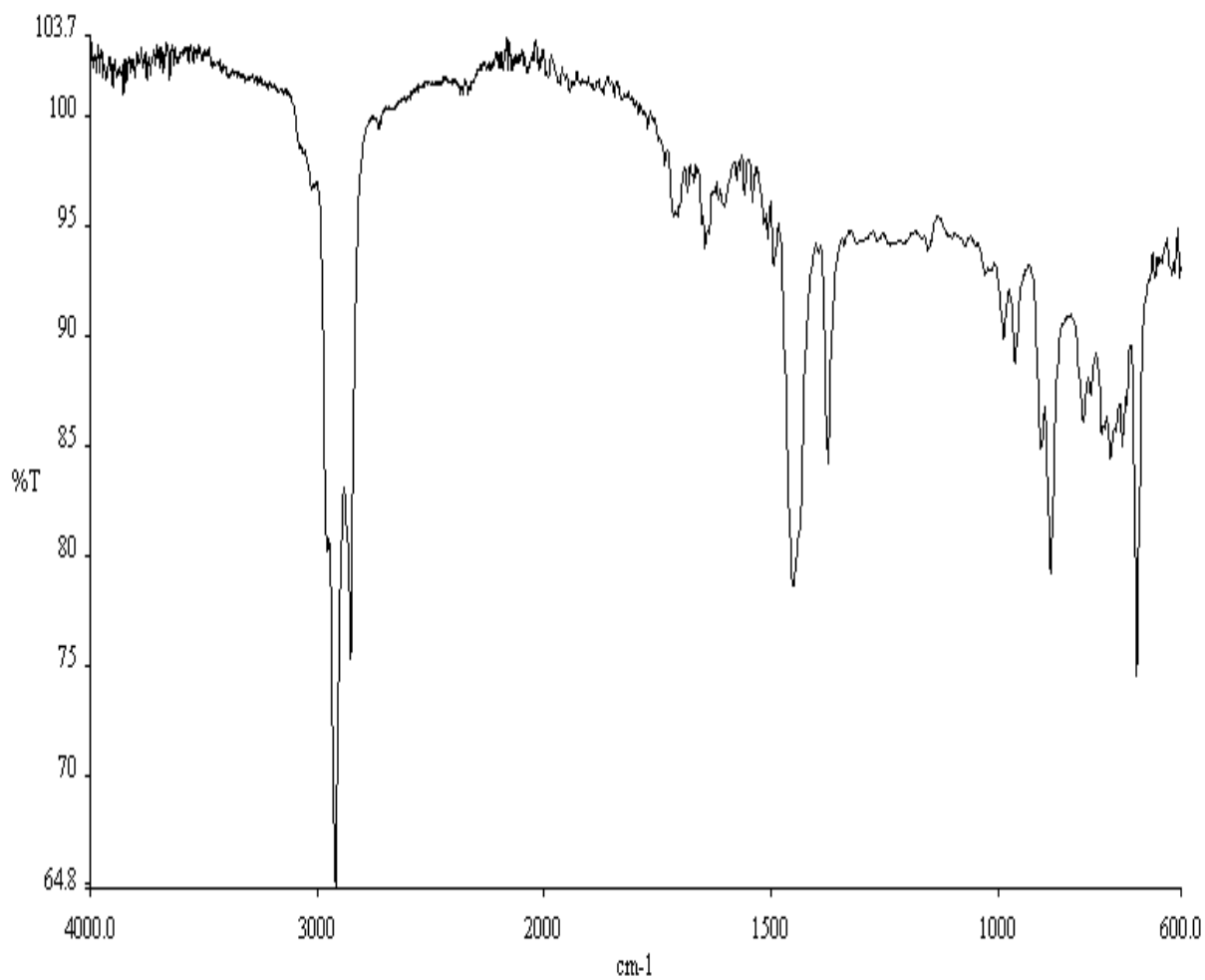
Typical UV-spectrum of aqueous extract according to the European Pharmacopoeia, Section 3.2.9.



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Typical infrared spectrum of a pyrolysate (4000-625 cm⁻¹).



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