



II Electrical Insulation Pressboard: II

• Material :

Made from 100% high-purity, sulfated wood pulp, refined and cleaned.

• Application :

Core insulation in oil-filled transformers, cable insulation, and other electrical components.

• Properties:

• UHigh mechanical strength, thermal resistance (up to E120), uniform thickness, and excellent dielectric properties.

| Parameter | Direction | Unit | Standard Requiremen | Test Value |
|---------------------------------|-----------|-------------------|---------------------|------------|
| Thickness Tolerance | | % | ±7.5 | 2.7 |
| Density | | g/cm ³ | 0.95 – 1.15 | 1.03 |
| Tensile Strength | MD | N/mm ² | ≥55 | 56.2 |
| Tensile Strength | CMD | N/mm ² | ≥35 | 36.9 |
| Elongation | MD | % | ≥3.0 | 4.5 |
| Elongation | CMD | % | ≥4.0 | 5.2 |
| Shrinkage | MD | % | ≤0.7 | 0.42 |
| Shrinkage | CMD | % | ≤1.0 | 0.83 |
| Shrinkage | Thickness | % | ≤5.0 | 4.5 |
| Ash Content | | % | ≤1.0 | 0.8 |
| Oil Absorption | | % | ≥15 | 19.3 |
| pH Value of Aqueous Extract | | | 6.0 – 9.0 | 7.48 |
| Conductivity of Aqueous Extract | | mS/m | ≤8.0 | 7.6 |
| Electrical Strength in Air | | kV/mm | ≥10 | 10.3 |
| Electrical Strength in Oil | | kV/mm | ≥35 | 35.4 |
| Moisture Content | | % | ≤8.0 | 7.9 |