

Technical parameters of products

I. Basic Product Information

Manufacturer Name: Tianjin Zhongxiang Rubber Co.,

Ltd. Address: No. 2, Sanxing Road, Zhongbei Town, Xiqing District, Tianjin

Main Products: Insulating rubber sheets, EPDM rubber sheets, natural rubber sheets, recycled rubber sheets, special rubber sheets

Certifications: SGS certified, State Grid power rubber sheet supplier, technology-based SME support services:

Processing with supplied drawings, OEM processing, foreign trade orders, special VAT invoices available

II. 12mm Rubber Sheet Size Specifications

rubber mat 12mm 15.4*1M

Thickness \bar{y} 12mm; Hardness (Shore A) 70–80; Oil-Resistant.

Non-slip properties; available with anti-slip tread patterns; durable oil resistance.

III. Physical Performance Parameters of 8mm Rubber Sheet

3.1 General performance indicators (GB/T 5574-2008)

| Performance Items | Technical Specifications | Test Standards

| | **Hardness (Shore A)** | 60 ~ 75 degrees | GB/T 531.1 | | **Tensile Strength** |

\bar{y} 4.0 ~ 15 MPa (depending on rubber type) | GB/T 528 | | **Elongation at Break** | \bar{y} 250% ~ 400% | GB/

T 528 | | **Compression Set** | \bar{y} 25% (70 \bar{y} ×24h) | GB/T 7759 | | **Hot Air Aging**

| 70 \bar{y} ×72h, tensile strength reduction \bar{y} 30% | GB/T 3512 | | **Water Absorption** | \bar{y} 1.5% | GB/

T 1690 | | **Operating Temperature Range** | -20 \bar{y} ~ +80 \bar{y} | - |

3.2 Performance Classification by Rubber Type

| Rubber Type | Tensile Strength | Elongation | Applicable Scenarios | Reference Price | | **Natural**

Rubber Sheet | \bar{y} 5.0 MPa | \bar{y} 300% | Wear-resistant, shock-absorbing, general industrial | Economical | | **Nitrile Rubber Sheet**

(Oil-resistant) | \bar{y} 4.0 MPa | \bar{y} 250% | Oil-based environments, sealing components | Medium | | **EPDM Rubber Sheet** | 8 ~ 20 MPa |

150% ~ 400% | Weather-resistant, acid and alkali-resistant, ozone-resistant | High | | **Insulating Rubber Sheet** | \bar{y} 4.0 MPa | \bar{y} 250% | Power

distribution rooms, substations | Medium-High |

IV. Electrical properties of 8mm insulating rubber sheet (if applicable)

| Voltage Rating | Withstand Voltage Rating for 8mm Thickness | Test Requirements |

| **25KV Rating** | 25KV RMS value, held for 1 minute, no breakdown | Applicable to voltage levels of 25KV and below |

Breakdown Voltage | ≥ 35 KV (RMS) | Destructive Testing |

Insulating rubber sheet colors: Black, red, green (custom colors available upon request)

V. Appearance Quality Requirements

| Defect Type | Quality Requirements | Standard | | **Surface**

Cracks **Not allowed** | GB/T 5574 | | **Perforations/Cracks** **Not allowed** |

GB/T 5574 | | **Bubbles** ≤ 5 per square meter, area ≤ 1 cm², spacing ≥ 40 mm |

GB/T 5574 | | **Impurities** | Depth $\leq 1/6$ of thickness, length $\leq 1/6$ of thickness | GB/T 5574 | | **Irregular Edges** | Width ≤ 10 mm,

length $\leq 1/10$ of total length | GB/T 5574 |

VI. Product Types and Uses

| Product Type | Color | Main Uses | | **Insulating Rubber**

Sheet **Black/Red/Green** | Insulation laying for substations, power distribution rooms, power plants, and laboratories | | **Oil-Resistant**

Rubber Sheet **Black/Red/Blue/Gray** | Oil medium sealing, gasket processing, and mechanical accessories | | **EPDM**

Rubber Sheet **Black/Customized** | Weather resistant, acid and alkali resistant, outdoor equipment, and water treatment corrosion

protection | | **Ordinary Rubber Sheet** **Black/Customized** | Shock absorption, anti-slip, industrial gaskets, and floor laying |

VII. Storage and Usage Precautions

| Project | Requirements | |

Storage Environment | Dry and well-ventilated, avoid direct sunlight and keep away from heat

sources | | **Storage Method** | Keep at least 20cm away from the ground and walls

| | **Contraindications** | Avoid contact with acids, alkalis, oils (non-oil-resistant), and sharp objects |

