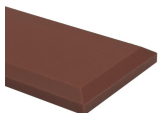




## Technical Data Sheet

PlastShop.se



### PE-500 3000x1250x35 mm brown

|             |          |
|-------------|----------|
| Article No. | P1400450 |
| Category    | PE       |

#### Technical Properties

##### Density & Weight

| Property | Value | Unit              | Test standard     |
|----------|-------|-------------------|-------------------|
| Density  | 1.3   | g/cm <sup>3</sup> | DIN EN ISO 1183-1 |

##### Moisture Absorption

| Property                       | Value | Unit | Test standard |
|--------------------------------|-------|------|---------------|
| Water absorption to saturation | 0.0   | %    | DIN EN ISO 62 |
| Water Absorption to Saturation | 0.0   | %    | DIN EN ISO 62 |

##### Tensile Properties

| Property                        | Value  | Unit | Test standard  |
|---------------------------------|--------|------|----------------|
| Tensile Strength                | 24.2   | MPa  | DIN EN ISO 527 |
| Modulus of elasticity (tensile) | 1100   | MPa  | DIN EN ISO 527 |
| Break Elongation                | 138.75 | %    | DIN EN ISO 527 |

##### Impact Resistance

| Property                         | Value | Unit              | Test standard  |
|----------------------------------|-------|-------------------|----------------|
| Notched impact strength (Charpy) | 2     | kJ/m <sup>2</sup> | DIN EN ISO 179 |

##### Hardness

| Property         | Value | Unit      | Test standard  |
|------------------|-------|-----------|----------------|
| Hardness Shore D | 65    | ° Shore D | DIN EN ISO 868 |

| Property               | Value | Unit | Test standard |
|------------------------|-------|------|---------------|
| Ball pressure hardness | 50    | MPa  | ISO 2039-1    |

Temperature Limits

| Property                                   | Value | Unit | Test standard  |
|--------------------------------------------|-------|------|----------------|
| Melting point                              | 132.5 | °C   | ISO 11357-3    |
| Maximal operating temperature (short-term) | 80    | °C   |                |
| Maximum Operating Temperature              | 54    | °C   |                |
| Minimum temperature                        | -100  | °C   |                |
| Vicat softening temperature (VST/B/50)     | 79    | °C   | DIN EN ISO 306 |

Thermal Conductivity

| Property             | Value | Unit    | Test standard |
|----------------------|-------|---------|---------------|
| Thermal Conductivity | 0.4   | W/(m·K) | DIN 52612-1   |

Thermal Expansion

| Property                      | Value | Unit                | Test standard |
|-------------------------------|-------|---------------------|---------------|
| Thermal Expansion Coefficient | 2.4   | 10 <sup>-4</sup> /K | DIN 53752     |

Insulation Properties

| Property                        | Value            | Unit  | Test standard    |
|---------------------------------|------------------|-------|------------------|
| Dielectric Strength             | 40               | kV/mm | IEC 60243        |
| Volume Resistivity              | 10 <sup>14</sup> | Ω     | DIN EN 62631-3-1 |
| Dielectric Constant (1 MHz)     | 2.3              | -     | IEC 60250        |
| Dielectric loss factor (1 MHz)  | 0.0              | -     | IEC 60250        |
| Dielectric loss factor (100 Hz) | 0.0              | -     | IEC 60250        |

Static spread

| Property                         | Value            | Unit | Test standard    |
|----------------------------------|------------------|------|------------------|
| Surface Resistivity              | ~10 <sup>8</sup> | Ω    | DIN EN 62631-3-2 |
| Comparative Tracking Index (CTI) | 600              | V    | IEC 60112        |

Fire Classification

| Property                            | Value | Unit | Test standard |
|-------------------------------------|-------|------|---------------|
| Flammability Classification (UL 94) | 3     |      | UL 94         |

