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# KARTA TECHNICZNA PRODUKTU (TDS)

## Technical Data Sheet

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### 1. Product Description

Black polystyrene (PS) technical film designed for vacuum and pressure thermoforming. A product with high stiffness and easy thermal shaping, available in rolls with thicknesses ranging from 0.7 to 2.8 mm. Used in technical, construction, advertising, and packaging industries.

### 2. Physical and Mechanical Properties

Property	Typical Value
Thickness	0.5 – 2.8 mm
Density	1.05 g/cm <sup>3</sup>
Color	Black
Tensile strength	≥ 18 MPa
Elongation at break	≥ 35%
Modulus of elasticity	1600–2000 MPa
Softening temperature (Vicat B50)	~90 °C
Forming temperature	130–150 °C
Shrinkage after forming	~0.4–0.7%
Chemical resistance	To alcohols, weak acids and bases

### 3. Performance Characteristics

- Excellent vacuum and pressure forming properties
- High rigidity and dimensional stability
- Capable of deep drawing without cracking
- Uniform surface – suitable for screen printing or lamination

- Recyclable (PS 06)
- Limited UV resistance (no stabilizer)

## 4. Applications

- Manufacturing of technical forms, panels, inserts and casings
- Production of covers, protective molds, trays, utility components
- Components for trade fair booths, advertising and modeling structures
- Spacers, separators, technical paneling

## 5. Variants and Availability

Parameter	Range
Thickness	0.5 mm – 2.8 mm
Width	up to 1100 mm
Roll weight	350-800 kg
Color	Black

## 6. Storage and Handling Conditions

- Store in temperatures between (5–30 °C)
- Protect from direct sunlight and ozone exposure
- Keep the film in protective packaging until use
- Adjust forming temperature to material thickness and machine type
- Pre-conditioning recommended before forming (24 h)

## 7. Notes and Additional Information

- Product does not contain PVC, phthalates or heavy metals
- Custom versions with modified additives available on request
- Data is indicative – user must carry out application-specific tests
- This TDS does not replace the SDS (not required for non-hazardous products)

