

# Technical Data Sheet



**Product name:** Pentastat® Rigid HIPS W-HMS 10

**Description:** Rigid high-impact polystyrene film for thermoforming applications requiring static dissipative properties

**Color:** Black  
**Surface:** Gloss/matte only

Properties	Standard	U.S.		SI	
		Unit	Value	Unit	Value
Available Gauge Range	Micrometer	mil	13-100	µm	330-2540
Gauge Tolerance ≤ 20 mil/508 µm ≤ 40 mil/1016 µm > 40 mil/1016 µm	Micrometer	mil mil %	± 0.5 ± 1.0 ± 3.0	µm µm %	± 12.5 ± 25.0 ± 3.0
Specific Gravity	D 792	NA	1.09	NA	1.09
Material Yield (Nominal) 15 mil/381 µm 20 mil/508 µm 40 mil/1016 µm	D 792	in <sup>2</sup> /lb	1694 1270 635	m <sup>2</sup> /kg	2.41 1.81 0.90
Tensile Strength (Yield)	D 638	psi	4200	N/mm <sup>2</sup>	29
Elongation (Break)	D 638	%	40	%	40
Flexural Modulus	D 790-1	psi	220,000	N/mm <sup>2</sup>	1517
Izod Notched Impact Strength (23°C)	D 256-A	ft-lbs/in	3.50	J/cm	1.87
Heat Deflection (264 psi)	D 648	°F	154	°C	68
Surface Resistivity	D 257	ohms per square	10e <sup>4</sup> to 10e <sup>7</sup>	ohms per square	10e <sup>4</sup> to 10e <sup>7</sup>

- Regulatory:**
- Klöckner Pentaplast certifies that its rigid film and sheet products comply with the most recent package requirements for heavy metals of the Toxic Packaging Clearing House (TPCH, formerly CONEG) legislation and the latest March 9, 2005, requirements of the European Packaging Directive EU 94/62, as well as European Union Directive 2002/95/EC (RoHS – Reduction of Hazardous Substances).
  - Klöckner Pentaplast rigid films and sheet products do not contain any Ozone depleting substances, including those listed in the 1990 Clean Air Act Amendments.
  - No BPA (bisphenol A), alkyl phenyls (octyl and nonyl), alkyl phenol ethoxylates (octyl and nonyl), or butyl benzyl phthalates are used in the manufacture of this kp film.

- Storage conditions:**
- Ideal storage conditions between 10-30°C (50-86°F)
  - Ideal RH 40-70%
  - Should not be stored in direct sunlight
  - Film should be conditioned a minimum of 24 hours at ambient room

The statements contained herein are for informational purposes only and are true and accurate to the best of our scientific and technical knowledge. This information does not constitute a guarantee or warranty, express or implied, nor does it establish a legally valid contractual relationship. It is the customer's responsibility to determine the suitability of this product for the customer's intended use, and Klöckner Pentaplast does not assume any liability for the customer's use of this product or the information contained herein.  
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