

# Technical Data Sheet



**Product name:** Pentastat® Rigid PETG SC-E773/00

**Description:** Rigid PETG specially formulated for thermoformed clamshells for printed circuit boards and all other EDS packaging applications for sensitive components  
**Color:** Clear  
**Surface:** Gloss/gloss

Properties	Standard	U.S.		SI	
		Unit	Value	Unit	Value
Gauge Range Available	Micrometer	mil	10-55	µm	254-1,397
Gauge Tolerance	D-374	%	±5	%	±5
Specific Gravity	D-792; DIN 53479	—	1.27	—	1.27
Material Yield 10 mil	D-792; DIN 53479	in <sup>2</sup> /lb	2,188	m <sup>2</sup> /kg	3.10
Tensile Strength (Yield)	D-882	lb/in <sup>2</sup>	7,300	N/mm <sup>2</sup>	51
Tensile Elongation (Break)	D-882	%	180	%	180
Cold Break Temperature	D-1790	°F	-30	°C	-34
Heat Deflection Temperature	D-648	°F	147	°C	64
Surface Resistivity 12% RH 50% RH	EOS/ESD S 11.11 (EIA-541; MIL-B-81705-C; D-257, CECC 00015/1; IEC 1340)	Ω/□	10 <sup>10</sup> 10 <sup>9</sup>	Ω/□	10 <sup>10</sup> 10 <sup>9</sup>
Surface Resistance 12% RH 50% RH	EOS/ESD S 11.11 (EIA-541; MIL-B-81705-C; D-257, CECC 00015/1; IEC 1340)	Ω	10 <sup>9</sup> 10 <sup>8</sup>	Ω	10 <sup>9</sup> 10 <sup>8</sup>
Static Decay±(5kV→0.05kV) 12% RH 50% RH	FTM 101C-4046 (EIA-541; MIL-B-81705-C; CECC 00015/1; IEC 1340)	Seconds	0.1 0.02	Second s	0.1 0.02
Polycarbonate Compatibility Visual (No Attacks)	EIA 546; (SP-2222) 73°F(23°C), 120°F(49°C), 158°F(70°C)	psi	2,000	N/mm <sup>2</sup>	14
Outgassing (257°F/ 180°C at <1x10 <sup>-5</sup> torr vacuum/24 hrs)	E595-77 (NASA SP-R-0022A)	%TML %CVCM %WVR	0.26 0.04 0.02	%TML %CVCM %WVR	0.26 0.04 0.02
Contact Corrosivity (Aluminum, copper, stainless steel)	FTM 101C-3005 (EIA-564)	Visual	No corrosion	Visual	No corrosion

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.  
 Revision: 7.7.08

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**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 phenols (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 <50%
- Should not be stored in direct sunlight
- Film should be conditioned a minimum of 24 hours at ambient room temperature prior to use