

Technical Data Sheet



Product name: Pentadur® Rigid Vinyl ST-M280/21

Previous name: Pentadur® ST-M280/01

Description: Rigid vinyl film for stationery applications where crease whitening is not an issue

Color: Clear 51/9400

Surface: Gloss/gloss

Properties	Standard	U.S.		SI	
		Unit	Value	Unit	Value
Gauge Range Available	Micrometer	mil	3-30	µm	76-762
Gauge Tolerance	D-374	%	±5	%	±5
Specific Gravity	D-792	—	1.33	—	1.33
Material Yield (Nominal) 3 mil 7.5 mil 10 mil 12 mil 15 mil	D-792	in ² /lb	6,930	m ² /kg	9.86
			2,770		3.94
			2,080		2.96
			1,730		2.46
			1,390		1.98
Tensile Strength (Yield)	D-882	lb/in ²	6,650	N/mm ²	46
Tensile Elogation (Break)	D-882	%	180	%	180
Tensile Impact Strength	D-1822 MOD	ft*lb/in ²	275	J/mm ²	0.58
Cold Break Temperature	D-1790	°F	-4	°C	-20
Heat Deflection Temperature (264 psi)	D-648	°F	162	°C	72
Gloss (20°)	D-523	%	130	%	130

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 DEHP (Di-ethylhexyl phthalate) or DEHA (Di-ethylhexyl adipate) or any other phthalate or adipate additives are used in the manufacture of Klöckner Pentaplast rigid film and sheet products.
- 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.

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- 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 temperature prior to use

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