

Ring Crush Test Fixture

Model: R0008

a measurable difference...

IDM[®]
instruments

The Ring Crush Test fixture is designed to carry out the ring crush test for paper and board having an average thickness up to 1000µm, for the purpose of MD ring crush, CD ring crush, liner or fair side.

The test piece of paper or board is supported in the Ring Crush Holder and subjected to edgewise compression between the platens of a crush testing machine.

A branch groove is cut from the edge to permit insertion of the test piece. One of a series of replaceable discs rests in the centre. The discs are of various diameters so that the width of the groove formed between the edge of the disc and the wall of the cylindrical hole may be varied to accommodate test pieces of various thicknesses.



Applications:

- Paper
- Paper board

Features:

- Cylindrical recess 6.35 +/- 0.25mm deep
- Ring Crush Test Feeder
- Paper Guide Ring ID – Ø 49.275

Standard: AS/NZs 1301.407s:1997

Thickness Range: 0 to 1000 µm

Disc Number	Sample Thickness (µm)		Groove Width (µm)		Disc Diameter			Tolerance ± mm
	From	To	Min	Max	Min	Max	Nominal	
180	0	180	200	240	48.820	48.875	48.8475	0.0275
250	181	250	270	310	48.680	48.735	48.7075	0.0275
330	251	330	350	390	48.520	48.575	48.5475	0.0275
410	331	410	430	480	48.34	48.415	48.3775	0.0375
490	411	490	510	560	48.18	48.255	48.2175	0.0375
580	491	580	600	650	48.000	48.075	48.0375	0.0375
680	591	680	700	750	47.800	47.875	47.8375	0.0375
780	681	780	800	850	47.600	47.675	47.6375	0.0375
880	781	880	900	950	47.400	47.475	47.4375	0.0375
1000	881	1000	1030	1080	47.140	47.215	47.1775	0.0375

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Standard: TAPPI T818cm-07

TAPPI T822om-07

Thickness Range: 0.28 to 0.51 (or 0.61) mm preferred

0.18 to 0.76 mm acceptable

Standard: ISO12192:2002

Thickness Range: 280 to 580 μm

Disc Number	Sample Thickness (μm)		Groove Width (μm)		Disc Diameter			Tolerance
	From	To	Min	Max	Min	Max	Nominal	\pm mm
A	280	320	480	490	48.295	48.340	48.318	0.0225
B	321	370	555	562	48.152	48.190	48.171	0.01925
C	371	430	645	649	47.977	48.010	47.993	0.01675
D	431	500	750	754	47.767	47.800	47.783	0.01675
E	501	580	870	877	47.522	47.560	47.541	0.01925

Benefits:

- Easy to use
- Fast results
- Accurate

Options:

- Cutter: Ring Crush Sample 12.7 x 152mm
- Other disc sizes available upon request

Dimensions:

- **H:** 140mm
- **W:** 275mm
- **D:** 150mm
- **Weight:** 0.2kg

