



CK-125-TU

Material Data Sheet

Item:
Thermally Upgraded Extensible Kraft

Description:

CK125-TU insulating papers are manufactured under an extensible paper process that provides this material with approximately 20% elongation. This unusual elongation permits CK-125 to stretch and absorb energy when subjected to extreme stress. The extensible paper process is entirely mechanical and in no way affects the high purity or chemical properties.

CK125-TU is available in .002" through .005" in rolls, sheets, or coils slit to your specifications.

Typical Test Values:

Thickness	.002" (.051mm)	.0025" (.064mm)	.003" (.076mm)	.005" (.127mm)
Density	1.15 g/cc	1.15 g/cc	1.15 g/cc	1.15 g/cc
Range	1.05 - 1.25 g/cc	1.05 - 1.25 g/cc	1.05 - 1.25 g/cc	1.05 - 1.25 g/cc
Basis Weight	52.4 g/m ²	65.5 g/m ²	78.58 g/m ²	163.47 g/m ²
Basis Weight	32 lbs/ 3000sf.	40 lbs/ 3000sf.	48 lbs/ 3000sf.	79 lbs/ 3000sf.
Elongation: MD	13-25%	13-25%	15-25%	15-25%
Elongation MD Typical	18%	18%	18%	18%
Tensile: MD 1" width	18-25 lbs	25-38 lbs	33-53 lbs	55-80 lbs
Dielectric in air	400 V/mil	400 V/mil	400 V/mil	400 V/mil
Impulse	3.0 kV/mil	2.9 kV/mil	2.9 kV/mil	2.3 kV/mil
Burst	53 PSIG 345 kPa	67 PSIG 437 kPa	80 PSIG 552 kPa	149 PSIG 1029kPa
Elmendorf Tear MD	47gf	76gf	100gf	154gf
Finch Edge Tear MD 5/8"	7 lbs	13 lbs	20 lbs	36 lbs
T.E.A.	29 lbs-ft/ft ²	34 lbs-ft/ft ²	45 lbs-ft/ft ²	50 lbs-ft/ft ²
IEEE C57.100 -1999 Nitrogen Content	2 - 4%	2 - 4%	2 - 4%	2 - 4%
Ash Content	<.75%	<.75%	<.75%	<.75%
Moisture Content	4 - 7%	4 - 7%	4 - 7%	4 - 7%

- These figures are typical values only and do not constitute a specification.
- Current specifications for all materials are always available on request.
- Cottrell Paper Company's continuous improvement efforts may lead to changes in the above data

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