



PRODUCT CAPABILITIES:

STOCK SHAPES

- Sheet : 0.5mm - 50mm (3021)
- 0.5mm - 50mm (3025)

ADVANTAGES:

- Good Moisture resistance
- Easy Machinability
- Both Have Good Electrical Properties
- Not As Abrasive As Fiberglass Alternatives When Used In Wear Applications
- Bakelite Cotton Has A Better Impact Strength Than Bakelite Paper

- Can Be Used In Explosion-Proof Environments
- Bakelite Cotton Complies With The Requirements MIL-I-24768/14, Type FBG.
- Bakelite Paper Complies With The Requirements MIL-I-24768/19, Type PBM-P

PRODUCT COLORS:

- Brown (Cotton)
- Orange (Paper)
- Black (Paper)

APPLICATIONS INCLUDE:

- Gears
- Pulleys
- Rollers
- Guides
- Electrically Insulated Parts, Such As Control Boards
- Switch Bases
- Terminal Boards

GENERAL PROPERTIES	ASTM or UL Test	BAKELITE 3021 (Paper) Typical Values	BAKELITE 3025 (Cotton) Typical Values
PHYSICAL			
Specific Gravity (g/cm ³)	D792	1.3 - 1.4	1.3 - 1.4
Water Absorption, Immersion, 24 hr (mg) (1.6mm thickness)	D570	182	220
MECHANICAL			
Tensile Strength (Mpa)	D638	—	—
Flexural Strength (Mpa)	D790	120	100
Flexural Modulus (Gpa)	D790	—	—
Compressive Strength (Mpa)	D695	—	—
Bonding Strength (N)	D229	3,200	—
Shear Strength (Mpa)	D732	—	—
Impact Strength parallel to lamination (KJ/m ²)	D256	—	8.8
Hardness, Rockwell, Scale M	D785	—	—
ELECTRICAL			
Breakdown Voltage (kVolts)	D149	—	—
Dielectric Strength perpendicular to lamination at 90 + / -2°C in transformer oil, for 1.0mm thickness (MV / m)	D149	12.1	0.82
Dielectric Voltage parallel to lamination at 90 + / - 2c in transformer oil, for 1.6mm thickness (KV)	D149	20	1
Dielectric Contant at 1MHz	D149	5.5	—

NOTE: The information contained here in is typical values intended for reference only. They should NOT be used as a basis for design specifications or quality control.