

# Ramie Packing — Size Chart / Common Sizes / Specifications

A — Pure Ramie (paraffin / mineral-oil impregnated)

2) Common sizes / stocked formats & application scenarios (Pure ramie)

Item	Typical stocked sizes / packaging	Typical application scenarios
Round braided cord diameters	Ø 2.0, 3.0, 4.0, 5.0, 6.0, 8.0, 10.0, 12.0 mm (imperial equivalents 1/16" → 1/2"+).	Ø2 - 4 mm: small valve stems & instrumentation; Ø4 - 8 mm: standard pumps & valve glands; Ø8 - 12 mm: large stuffing boxes / stern glands.
Square braid sizes	3×3, 4×4, 5×5, 6×6, 8×8 mm	Square braid used in pump glands and reciprocating shafts for improved corner sealing.
Spool / reel lengths	Small coils (1 - 10 m), standard spools (5 - 30 m), large reels (10 - 100 m) — sold by length or weight.	Workshop stocking & onsite cutting to gland ID.
Packed ring sets	Pre-cut rings to common shaft/gland IDs (on request from suppliers).	Quick replacement for common pump models.
Max recommended shaft hardness & speed	Vendors often recommend hardened/sleeved shafts (e.g., HRC ≥45 recommended by some prod. sheets); typical safe rotary speeds depend on gland design — check TDS. Example: Propack recommends HRC45.	

## B — Ramie + PTFE (PTFE suspensoid impregnated) — most common commercial type

Common sizes / stocked formats & application scenarios (Ramie + PTFE)

Item	Typical sizes / packaging	Typical application scenarios
Round cord diameters	Ø 3, 4, 5, 6, 8, 10 mm common (spools and pre-cut)	Centrifugal pumps, mixers, valve stems in marine & municipal water plants.
Square braid	4×4, 5×5, 6×6 mm often available	Reciprocating pumps and valves where better corner sealing is required.
Typical performance numbers (examples)	Sunshine example: Density $\approx 1.25$ g/cm <sup>3</sup> ; Rotary speed upto 7 m/s; Max temp $\sim 130$ ° C; Pressure guidance (rotating) $\sim 20$ bar (refer to supplier datasheet for your grade).	
Packaging	Spools, coils, boxed spool sets, pre-cut rings	

## C — Ramie + Graphite impregnated

Common sizes / stocked formats (Ramie + Graphite)

Item	Typical sizes	Typical applications
Diameters & squares	Ø 4 - 10 mm; square 4×4 - 8×8 mm	Pumps handling solids (moderate), valve glands where slightly higher temp/lubricity needed.
Packaging	Spools/reels and pre-cut rings	Pump maintenance for pulp & paper, wastewater.

## D — Ramie / Cotton blended packings (ramie-cotton blends)

/ for low-cost general service

Common sizes / formats

Item	Typical sizes	Typical applications
Diameters	Ø 2 - 8 mm common	Small domestic pumps, irrigation, low-pressure water valves.