# Acrylic fiber packing — Size Chart / Common Sizes / Specifications

## 1) Standard Acrylic (PTFE / lubricant impregnated) — general-purpose

Common sizes & application scenarios

| Form | Typical stocked sizes (metric / imperial) | Packaging | Typical applications |
|---|---|---|---|
| Round braided cord | Ø 2 mm → 12 mm common (3, 4, 5, 6, 8, 10 mm stocked); imperial: 3/32″, 1/8″, 3/16″, 1/4″, 5/16″, 3/8″. | Small spools (1 – 10 m), reels (10 – 100 m), boxed coils; cut-to-length rings on request. | Centrifugal pumps, general service valves, mixers, OEM gland kits in water/chemical plants. |
| Square braid | 3×3 → 8×8 mm | Same packaging | Reciprocating shafts and valves where corner contact improves sealing. |
| Ribbon / flat | widths 6 / 12 / 25 mm; thickness per vendor | Rolls / spools | Layered packing rings for large glands, slow agitators. |

## 2) Acrylic + Aramid (aramid corner reinforcement) — anti-extrusion high-pressure variant

Common sizes & application scenarios

| Form | Sizes | Typical applications |
|---|---|---|
| Round cord / square braid | Ø 4 – 12 mm; square 4×4 → 8×8 mm | High-pressure pumps, boiler feed pumps, some valve glands where extrusion historically caused failures. Common choice for municipal pump stations and some chemical feed pumps. |
| Packaging | Reels, pre-cut ring sets for common pump models | Maintenance kits for higher-pressure rotating equipment. |

## 3) Acrylic treated with graphite (graphite-lubricated) — high-T & hotter sliding service

Common sizes & application scenarios

| Form | Sizes | Applications |
|---|---|---|
| Round / square braid | Ø 4 – 12 mm; square 4×4 → 8×8 mm | Steam-traced pumps, hotter process liquids, valves in medium-temp chemical plants. |

## 4) Acrylic with metal / mesh jacket (jacketed) — severe abrasion / extrusion control

Common sizes & application scenarios

| Form | Sizes (typical) | Typical applications |
|---|---|---|
| Jacketed round braid | Ø 6 – 20+ mm (OD higher due to jacket) | Slurry pumps, dredging, pulp & paper high-abrasion pumps, abrasive chemical slurry mixers. Custom manufactured in many cases. |

## 5) Pre-formed / molded acrylic packing rings & specialty styles

Common sizes & application scenarios

| Type | Typical thickness / OD | Applications |
| --- | --- | --- |
| Molded rings / pre-formed sets | Custom OD/ID; thickness commonly 3–12 mm depending on gland design | Mechanical seal backup rings, precision pump glands, OEM replacement kits requiring fast fitment. |