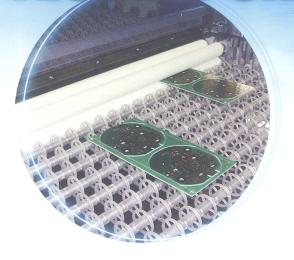
TECHNOPOROUS Roller



TECHNOPOROUS Roller is a continuous micro-porous foam roller based on our original technology, excellent in various properties such as softness, resilience, water absorption and chemical resistance. In addition, TECHNOPOROUS Roller is made of alternative base polymers of polyolefin or polyurethane, so that the most suitable roller can be selected for diverse uses each. For example, a polyolefin roller is recommendable in a chemical resistance demanding use, and so is a polyurethane roller in an abrasion resistance demanding use.

Applications of Rollers

- Squeegee Rollers/Minilabo, Printed Circuit Board, Lead-Frame, Film, etc.
- Washing Pads/Glass Plate, etc.
- Coating Rollers/Ink, Oil, Miscellaneous Coating
- Chemical Squeeze Rollers/Plating, Etching, OSP,etc.

Manufacturing Sizes

Outer Diameter	φ115mm or less		
Thickness	38mm or less		
Length	2500mm or less		

Sizes larger than the above are available, as the case may be.

General Properties

Material	U16W	L16W	L26WH
Material	Polyurethane	Polyolefin	Polyolefin
Apparent Specific Gravity g/cm ³	0.24	0.25	0.26
Tensile Strength N/cm²	67	39	41
Elongation %	300	480	230
Hardness ASKER C	10	9	18
Pore Size µm	60	60	60
Heat Resistance ℃	100	60	100
Water Absorption sec	Instant	Instant	Instant

The above table is just for example. The properties are adjustable on demand.

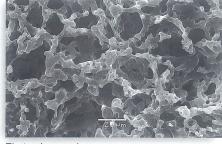
Chemical Resistance of Polyolefin Roller(L16W)

Chemicals	Tensile Strength (Retention %)		Elongation (Retention %)	
	2week	4week	2week	4week
47% Sulfuric Acid	96	107	105	93
60% Nitric Acid	68	56	90	82
36% Hydrochloric Acid	103	99	100	102
30% Acetic Acid	97	106	86	95
85% Phosphoric Acid	95	105	91	106
30% Sodium Hydrate	101	100	102	98
10% Ammonia	92	106	104	96
40% Iron(III) Chloride	100	102	93	96
30% Hydrogen Peroxide	96	106	102	103
available chlorine 5% Sodium Hypochlorite	97	103	104	98
5% Potassium Permanganate	106	94	98	68
Ethanol	98	103	94	102

①Retention=Measured Value/Original ValueX100

The above measured values are not guaranteed.

Measurement is conducted at room temperature.



Photomicrograph

Note

Besides material, hardness, pore size, product size, and shape, we can customize such as:

- Electrical conductive type
- Anti-bacterium/anti-mold type
- Low pollution type (eluted substance and particle)
- Coiling prevention type

as per requirements in each use.