

RULON® FLUOROPOLYMERS MATERIAL COMPARISON

Rulon® AR Maroon

Higher physical properties

General

Specific Gravity: 2.22

Working temperature range:
-240°C to +288°C

Design Flexibility: Excellent

Mechanical

Tensile Strength

Min. 18.6 MPa (Min. 2700 psi)

Elongation

Minimum 235%

Maximum Load

6.9 MPa (1000 psi)

Coefficient of Friction

0.15 – 0.25

Available as

- ✓ Basic Shapes
- ✓ Finished Parts

Manufacturing Process

- ✓ Compression Molding
- ✓ Skiving
- ✓ Extrusion

Rulon® LR Maroon

High creep and abrasion resistance

General

Specific Gravity: 2.25

Working temperature range:
-240°C to +288°C

Design Flexibility: Excellent

Mechanical

Tensile Strength

Min. 18.6 MPa (Min. 2700 psi)

Elongation

Minimum 235%

Maximum Load

6.9 MPa (1000 psi)

Coefficient of Friction

0.15 – 0.25

Available as

- ✓ Basic Shapes
- ✓ Finished Parts

Manufacturing Process

- ✓ Compression Molding
- ✓ Skiving
- ✓ Extrusion

Rulon® J Gold

Lowest coefficient of friction, excellent insulator

General

Specific Gravity: 1.95

Working temperature range:
-268°C to +288°C

Design Flexibility: Excellent

Mechanical

Tensile Strength

Min. 18.8 MPa (Min. 2725 psi)

Elongation

Minimum 235%

Maximum Load

5.2 MPa (750 psi)

Coefficient of Friction

0.12 – 0.20

Available as

- ✓ Basic Shapes
- ✓ Finished Parts

Manufacturing Process

- ✓ Compression Molding
- ✓ Skiving
- ✓ Extrusion

Rulon® 641 White

Widely used in food processing industry

General

Specific Gravity: 2.20

Working temperature range:
-240°C to +288°C

Design Flexibility: Excellent

Mechanical

Tensile Strength

Min. 13.8 MPa (Min. 2000 psi)

Elongation

Minimum 175%

Maximum Load

6.9 MPa (1000 psi)

Coefficient of Friction

0.10 – 0.30

Available as

- ✓ Basic Shapes
- ✓ Finished Parts

Manufacturing Process

- ✓ Compression Molding
- ✓ Skiving
- ✓ Extrusion

Rulon® 142 Turquoise

Excellent abrasion resistance

General

Specific Gravity: 3.11

Working temperature range:
-240°C to +288°C

Design Flexibility: Excellent

Mechanical

Tensile Strength

Min. 21.4 MPa (Min. 3100 psi)

Elongation

Minimum 200%

Maximum Load

6.9 MPa (1000 psi)

Coefficient of Friction

0.025 with oil

Available as

- ✓ Basic Shapes
- ✓ Finished Parts

Manufacturing Process

- ✓ Compression Molding
- ✓ Skiving
- ✓ Extrusion

Rulon® 488 Dull Turquoise

High abrasion resistance

General

Specific Gravity: 2.25

Working temperature range:
-240°C to +288°C

Design Flexibility: Excellent

Mechanical

Tensile Strength

Min. 13.8 MPa (Min. 2000 psi)

Elongation

Minimum 175%

Maximum Load

6.9 MPa (1000 psi)

Coefficient of Friction

0.10 – 0.30

Available as

- ✓ Basic Shapes
- ✓ Finished Parts

Manufacturing Process

- ✓ Compression Molding
- ✓ Skiving
- ✓ Extrusion



RULON® FLUOROPOLYMERS MATERIAL COMPARISON

Rulon® W2 Black	Rulon® 1337 Tan	Rulon® XL Tan	Rulon® 1439 White	Rulon® 945 Black
Very good service in wet environments	Food (FDA & EU1935) compliant material	Best option against aluminum surfaces	Ideal for submerged applications	Very good service in wet environments
General Specific Gravity: 2.1 Working temperature range: -240°C to +288°C	General Specific Gravity: 2.11 Working temperature range: -240°C to +288°C	General Specific Gravity: 1.97 Working temperature range: -240°C to +288°C	General Specific Gravity: 2.55 Working temperature range: -240°C to +288°C	General Specific Gravity: 1.90 Working temperature range: -240°C to +288°C
Design Flexibility: Excellent	Design Flexibility: Excellent	Design Flexibility: Excellent	Design Flexibility: Excellent	Design Flexibility: Good
Mechanical Tensile Strength Min. 16.5 MPa (Min. 2400 psi)	Mechanical Tensile Strength Min. 17.2 MPa (Min. 2500 psi)	Mechanical Tensile Strength Min. 11.7 MPa (Min. 1700 psi)	Mechanical Tensile Strength Min. 10.3 MPa (Min. 1500 psi)	Mechanical Tensile Strength Min. 20.7 MPa (Min. 3000 psi)
Elongation Minimum 200%	Elongation Minimum 175%	Elongation Minimum 160%	Elongation Minimum 100%	Elongation Minimum 20%
Maximum Load 6.9 MPa (1000 psi)	Maximum Load 6.9 MPa (1000 psi)	Maximum Load 8.3 MPa (1200 psi)	Maximum Load 6.9 MPa (1000 psi)	Maximum Load 6.9 MPa (1000 psi)
Coefficient of Friction 0.15 – 0.30	Coefficient of Friction 0.10 – 0.20	Coefficient of Friction 0.10 – 0.25	Coefficient of Friction 0.15 – 0.25	Coefficient of Friction 0.20 – 0.35
Available as ✓ Basic Shapes ✓ Finished Parts	Available as ✓ Basic Shapes ✓ Finished Parts	Available as ✓ Basic Shapes ✓ Finished Parts	Available as ✓ Basic Shapes ✓ Finished Parts	Available as ✓ Basic Shapes ✓ Finished Parts
Manufacturing Process ✓ Compression Molding ✓ Skiving ✓ Extrusion	Manufacturing Process ✓ Compression Molding ✓ Skiving ✓ Extrusion	Manufacturing Process ✓ Compression Molding ✓ Skiving ✓ Extrusion	Manufacturing Process ✓ Compression Molding ✓ Skiving ✓ Extrusion	Manufacturing Process ✓ Compression Molding ✓ Skiving ✓ Extrusion

