



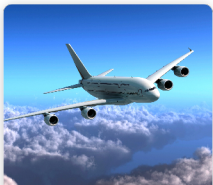
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Radel® WM



Radel® Polyphenylsulfone (PPSU) is an amorphous transparent high performance thermoplastic. It is known for its high heat resistance, extreme toughness, high flexural and tensile strength, excellent hydrolytic stability and good resistance to a broad range of chemicals including aqueous mineral acids, bases, and oxidizing agents and most solvents. Additionally, PPSU is inherently flame resistant.

INDUSTRY



Aerospace



Life Sciences

COLORS AVAILABLE



Black



Blue



Bone



Brown



Dark Grey



Green



Grey



Light Grey



Natural



Orange



Purple



Red



Yellow

ATTRIBUTES

Impact Resistance	✓
Heat Resistant	✓
Chemical Resistance	✓
Biocompatibility	✓
Dimensional Stability	✓

SHAPES

Extruded Slab	✓
Extruded Sheet	✓
Extruded Film	✓
Extruded Rod	✓



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TYPICAL PROPERTIES

PROPERTY	TEST STANDARD	ENGLISH UNITS	METRIC UNITS
Mechanical			
Flexural Modulus	D790	349 kpsi	2,410 MPa
Flexural Strength - 5%	D790	13 kpsi	91 MPa
Izod Impact Resistance - Notched	D256	12.9 ft-lb/in	690 J/m
Tensile Elongation @ Break	D638	60-120%	60-120%
Tensile Elongation @ Yield	D638	7.20 %	7.20 %
Tensile Modulus	D638	339 kpsi	2,340 MPa
Tensile Strength @ Yield	D638	10 kpsi	69.6 MPa
Thermal			
HDT @ 264 psi	D648	404 °F	207 °C
Physical			
Moisture Absorption	D570	0.37 %	0.37 %
Specific Gravity	D792	1.29	1.29
Electrical			
Volume Resistivity	D257	1 x 10 ¹⁵	1 x 10 ¹⁵

*Data above is based on testing of injection molded test specimens



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PRODUCT SHAPES & DIMENSIONS

Rods: 48"L (122cm)

2.25" (57.15mm)	2.50" (63.5mm)	2.75" (69.85mm)	3" (76.2mm)	3.25" (82.55mm)	3.50" (88.9mm)
3.75" (95.25mm)	4" (101.6mm)	4.25" (107.95mm)	4.50" (114.3mm)	4.75" (120.65mm)	

Rods: 96"L (244cm)

0.5" (12.7mm)	0.75" (19.05mm)	1" (25.4mm)	1.25" (31.75mm)	1.50" (38.1mm)	1.75" (44.45mm)
2" (50.8mm)					

Extruded Slabs: 24"W (61cm)

0.5" (12.7mm)	0.75" (19.05mm)	1" (25.4mm)	1.25" (31.75mm)	1.5" (38.1mm)	1.75" (44.45mm)
2" (50.8mm)	2.25" (57.15mm)	2.50" (63.5mm)	2.75" (69.85mm)	3" (76.2mm)	3.25" (82.55mm)
3.50" (88.9mm)	3.75" (95.25mm)	4" (101.6mm)			

Extruded Sheets: 48"W x 96"L (122cm x 244cm)

0.03" (0.76mm)	0.035" (0.89mm)	0.06" (1.52mm)	0.062" (1.57mm)	0.08" (2.03mm)	0.09" (2.29mm)
0.095" (2.41mm)	0.125" (3.18mm)	0.1875" (4.76mm)	0.25" (6.35mm)		

Extruded Films: 26"W (66cm)

0.002" (0.05mm)	0.003" (0.08mm)	0.004" (0.1mm)	0.005" (0.13mm)	0.01" (0.25mm)	0.02" (0.51mm)
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LAST REVISED: 01/05/2024

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