P: 1.800.999.1700 | F: 610.459.1084 | info@westlakeplastics.com | 490 West Lenni Road, Lenni, PA 19052 U.S.A.

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 & Defense

Life Sciences

COLORS AVAILABLE

Black, Blue, Bone, Brown, Dark Grey, Green, Grey, Light Grey, Natural, Orange, Purple, Red, Yellow

ATTRIBUTES

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

SHAPES

- Extruded Slab
- Extruded Sheet
- Extruded Film
- Extruded Rod

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TYPICAL PROPERTIES

PROPERTY	TEST STANDARD	ENGLISH UNITS	METRIC UNITS
Mechanical			
Tensile Strength @ Yield*	D638	11.6 kpsi	79.9 MPa
Tensile Strength @ Break*	D638	9.9 ksi	68.3 MPa
Tensile Elongation @ Yield*	D638	7.4 %	7.4 %
Tensile Elongation @ Break*	D638	23.7 %	23.7 %
Tensile Modulus*	D638	355 kpsi	2448 MPa
Flexural Strength* - 5%	D790	14.4 kpsi	99.3
Flexural Modulus*	D790	337 kpsi	2,323 MPa
Izod Impact Resistance - Notched*	D256	3.06 ft-lb/in	163 J/m
Thermal			
HDT** @ 264 psi	D648	404 °F	207 °C
Physical			
Moisture Absorption**	D570	0.37 %	0.37 %
Specific Gravity**	D792	1.29	1.29
Other			

*Data above is based on testing of machined test specimens made from extruded bar stock

**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)

0.75" (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)

LAST REVISED: 08/28/2025

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