

Radel® is a Registered Trademark of Westlake Plastics Co.

Westlake's Radel® WM stock shapes are made exclusively from Solvay's Radel® polyphenylsulfone (PPSU). Radel WM offers exceptional hydrolytic stability, toughness, and superior impact strength over a wide temperature range. Its regulatory compliance profile and lot traceability make it ideal for use in medical and life science applications. Sterilization methods include EtO gas, radiation, steam autoclaving, dry heat and cold sterilization.















The following physical property information is based on typical values of the colored resin.

Property	Units	Test Standard	Result
Mechanical			
Flexural Modulus	psi	ASTM D790	350,000
Flexural Strength	psi	ASTM D790	13,200
Izod Impact Notched @73°F Un-Notched Tensile Elongation @break @yield	ft•lbs/in ft•lbs/in % %	ASTM D256 ASTM D256 ASTM D638 ASTM D638	13.0 No Break 60.0-120.0 7.2
Tensile Impact	ft•lbs/in²	ASTM D1822	190
Tensile Modulus	psi	ASTM D638	340,000
Tensile Strength @yield	psi	ASTM D638	10,100
Thermal			
Coefficient of Thermal Expansion	in/in/°F	ASTM D696	3.1x10 <sup>-5</sup>
Flammability Rating @0.031"	_	UL94	V-0
Heat Deflection Temperature @66 psi @264 psi	°F	ASTM D648 ASTM D648	417 405
Thermal Conductivity	(BTU•in)/(hr•ft²•°F)	ASTM E1530	2.08
Other			
Steam sterilization cycles passed without cracking*, crazing or rupture:			>1,000
Water Absorption @24hours	%	ASTM D570	0.37
Specific Gravity	_	ASTM D792	1.29

<sup>\*</sup> Steam autoclave conditions: temperature 270°F (132°C); time 30 minutes/cycle; steam pressure 27 psig (0.19 mPa); stress level 1,000 psi (7.0 mPa) in flexure; additive - Morpholine at 50 ppm.

## **Applications Include:**

- Provisional Trials
- Instrument Handles

## **Manufacturing Capabilities:**





## Colors:

Black BK 937 Orange OR 1145
Green GN 1007 Brown BN 1164
Blue BU 1027 Bone NT 15
Violet VT 2582 Natural NT (transparent)
Red RD 1018 Gray GY 1137
Yellow YL 1337 Gray GY 1037

In addition to our standard capabilities, Westlake also has the ability to process custom resins in various sizes and colors with some exceptions.

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