



** RADEL® is the registered trademark of

WESTLAKE PLASTICS COMPANY

PRODUCT CAPABILITIES:

Standard : · Rod : 1" - 3.5" (Off-White),
1" - 2" (Black)
Non-Standard : · Rod : 1/4" - 8" , Heavy
Gauge Sheet : 3/8" - 4"

ADVANTAGES:

- Lot Controlled And Traceable
- Resin Meets The Requirements Of USP Class VI Specifications
- Superior Dimensional Stability
- Outstanding Impact Resistance
- Stress Relieved
- Withstands Repeated Autoclaving
- Laser Markable

PRODUCT COLORS:

- Off White
- Black

APPLICATIONS INCLUDE:

- Provisional Trials
- Instrument Handles
- Medical Device Components

GENERAL PROPERTIES	ASTM or UL Test	RADEL® R5500 Typical Values
PHYSICAL		
Specific Gravity (g/cm ³)	D792	1.29
Water Absorption, 24 hrs (%)	D570	0.37
MECHANICAL		
Tensile Strength at Yield (psi)	D638	10,100
Tensile Elongation at Yield (%)	D638	7.2
Compressive Strength at Yield (psi)	D695	14,350
Flexural Strength (psi)	D790	13,200
Flexural Modulus (psi)	D790	350,000
IZOD Notched Impact (ft-lb/in)	D256	10
IZOD Un-Notched Impact (ft-lb/in)	D256	No Break
Hardness, Rockwell R	D785	-
THERMAL		
Coeff. of Thermal Expansion (x 10 ⁻⁵ in./in./°F)	D696	3.1
Heat Deflection Temp (°F / °C) @ 264 psi	D648	405 / 207
Thermal Conductivity (BTU-in/ft ² -hr-°F)	C177	2.42
Flammability Rating	UL-94	V-0
ELECTRICAL		
Surface Resistivity (ohms/sq)	D257	-
Volume Resistivity (ohm-cm) at 73°F, 50% RH	D257	-
Static Decay, 15% RH (seconds)	MIL-B-81705-B	-

NOTE: The information contained here in is typical values intended for reference only. They should NOT be used as a basis for design specifications or quality control.