

➤ PRODUCT SELECTION GUIDE

COLORANT CHROMATICS

HIGH-TEMPERATURE
POLYMER FORMULATIONS



COLORANT CHROMATICS

HIGH TEMPERATURE COMPOUNDS

PROPERTY	ISO Test Method	Units	PES	PPSU	PEI	LCP	PEEK	PSU
PHYSICAL								
Density	1183	—	1.37	1.29	1.27	1.40	1.30	1.24
Mold Shrinkage Flow/X-flow	294-4	%	0.8/0.85	0.7/XX	0.6/0.7	0/0.7	1.0/1.3	0.7
MECHANICAL								
Tensile Strength	527	Mpa	85	70	85	200	100	70
Tensile Elongation Yield	527	%	7	7.5	6	—	—	6
Tensile Elongation Break	527	%	>25	>60	60	3	30	>50
Izod Notched	180	kJ/m ²	7	55	5	95	7	5.5
THERMAL								
HDT 1.8 MPa	75	°C	205	200	190	190	150	175
FLAMMABILITY								
Flame Rating	UL-94	—	V-0	V-0	V-0	V-0	V-0	HB
ADDITIONAL								
Steam Sterilizable	—	Cycles	100	2000	2000	1500	1000	100
CUSTOM OPTIONS								
Color	—	—	Yes	Yes	Yes	Yes	Yes	Yes
Reinforced	—	—	Yes	Yes	Yes	Yes	Yes	Yes
Conductive	—	—	Yes	Yes	Yes	Yes	Yes	Yes
Lubricated	—	—	Yes	Yes	Yes	No	Yes	Yes
Radiopaque	—	—	Yes	Yes	Yes	No	Yes	Yes
Trade Names	—	—	Veradel Ultrason E	Radel Ultrason P	Ultem	Vectra Zenite Xydar	KetaSpire Victrex Vestakeep	Udel Ultrason S





Avient high temperature precolored and specialty compounds are your solutions for high performance products. Customized with high quality pigments and select fiber reinforcements, fillers and additives, these solutions are designed to meet the performance your application requires. With more than 3,000 unique color shades, including translucent or opaque effects, we will make your application look unmistakable. Whether the volume is measured in bags or tons, with minimum order quantities down to 50 pounds, Avient is the innovative partner for your business.

KEY FEATURES

- High temperature resistance
- Biocompatible
- Brilliant colors
- Multi sterilizable
- Hydrolytic stability
- Chemical resistance
- Flame resistance
- High mechanical performance
- Food contact compliant

APPLICATIONS

- FDA medical & dental devices
- Sterilization trays
- Aircraft interiors
- Automotive lighting
- Chemical handling
- Sensors and pumps
- Plumbing fittings & manifolds
- Food service trays
- Gears & bushings
- Membranes
- Connectors

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