



Vespro® 6200 is a proprietary PFA (perfluoroalkoxy) based material reinforced with carbon fiber for higher strength, stiffness and wear properties. It exhibits superior dry running capability at very low wear rates. Its higher elongation, excellent chemical resistance along with high strength make this material an ideal candidate for high-pressure sealing components used in highly corrosive environments. Due to its extremely low wear “rubtolerant” characteristics, it has been used extensively as wear components in centrifugal pumps for metal replacements. In addition to improved reliability and increased MTBR (mean time between repair), its tribological features allow for much tighter clearance gaps than API or manufacturer recommended values, thereby increasing pumping efficiency resulting in substantial energy savings.

<i>Physical Properties</i>	<i>ASTM Method</i>	<i>Typical Values</i>
Specific Gravity	D792	2.0 gr/cm ³
Water Absorption (24hrs. @73.4°F)	D570	0.025 %
Color	N/A	Dark Grey
<i>Mechanical Properties</i>		
Tensile Strength	D1708	11,500 psi
Tensile Elongation	D1708	7 %
Flexural Strength	D790	16,500 psi
Flexural Modulus	D790	1,200,000 psi
Compressive Strength	D695	8,700 psi
Compressive Modulus	D695	230,000 psi
Impact Strength (Izod, notched)	D256	ft-lb/in
Hardness	Shore D	78
<i>Tribological Properties</i>		
Coefficient of Friction		
Static	D3702	0.42
Dynamic	D3702	0.33
Wear Rate (PV: 2,000 psi-fpm)	D3702	1.44 µin/min
Limiting PV		90,000 Psi-fpm
<i>Thermal Properties</i>		
Thermal Conductivity		0.2 W/m.K
Coefficient of Linear Thermal Expansion (78 to 200 °F)	D696	120 10 ⁻⁶ /°F
Heat Deflection Temperature (@264 psi)	D648	°F
Glass Transition Temperature (T _g)	D3418	194 °F
Continuous Service Temperature (Min-Max @ no load)		-250 to 500 °F
Melting Point		572 °F
<i>Electrical Properties</i>		
Volume Resistivity	D257	10 ¹⁶ ohm-cm
Dielectric Strength (1/8" thick)	D149	V/mil
Dielectric Constant	D150	50Hz, 200 °C

Note: Property values should be interpreted as typical rather than minimum value. All technical information and recommendations are presented in good faith, based upon laboratory and real-world tests believed to be reliable and practical. However, Professional Plastics cannot guarantee the accuracy or completeness of this information, and it is the customer's responsibility to determine product suitability to any given application.

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 E-Mail sales@proplas.com
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