

Reinforcement→ Resin Matrix & ↓ Material Ref.	Property	Glass Fiber 0.5" – 1"	Carbon Fiber 1"– 2"
<b>Vinyl Ester &amp; Polyester</b> <b>Glass fiber - QC-7753,</b> <b>QC-8700, QC-8800,</b> <b>QC-8777, QC-8740....</b>  <b>Carbon Fiber:</b> <b>AMC-8590, 8592</b>	<b>Density</b> <b>Flex Strength PSI</b> <b>Flex Modulus PSI</b> <b>Tensile Strength PSI</b> <b>Impact – notched Izod</b>	<b>1.2 - 1.9</b> <b>34K – 85K</b> <b>1.7 – 3.0 Million</b> <b>15K – 52K</b> <b>18 – 36 ft.lb/in</b>	<b>1.48</b> <b>113K</b> <b>6.2 million</b> <b>76K</b> <b>30 ft.lb/in</b>
<b>Epoxy LYTEX®</b> <b>Glass Fiber Lytlex 9063</b>  <b>Carbon Fiber</b> <b>Lytex 4149</b>	<b>Density,</b> <b>Flex Strength PSI</b> <b>Flex Modulus PSI</b> <b>Tensile Strength PSI</b> <b>Impact – notched Izod</b>	<b>1.82</b> <b>66K</b> <b>2.6 million</b> <b>35K</b> <b>35 ft.lb/in</b>	<b>1.45</b> <b>100K</b> <b>6.8 million</b> <b>42K</b> <b>18 ft.lb/in</b>
<b>Phenolic</b> <b>Glass Fiber</b> <b>QC-2150 QC2550</b>  <b>Carbon Fiber</b> <b>AMC-2590</b>	<b>Density</b> <b>Flex Strength PSI</b> <b>Flex Modulus PSI</b> <b>Tensile Strength PSI</b> <b>Impact – notched Izod</b>	<b>1.25 - 1.82</b> <b>23K – 62K</b> <b>1.4 – 3.0 million</b> <b>11K – 37K</b> <b>9 - 20 f.lb/in</b>	<b>1.55</b> <b>75K</b> <b>6.5 million</b> <b>37K</b> <b>24 ft.lb/in</b>
<b>Polyimide (PMR15)</b>	<b>Density</b> <b>Flex Strength PSI</b> <b>Flex Modulus PSI</b> <b>Tensile Strength PSI</b> <b>Impact – notched Izod</b>	<b>1.88</b> <b>54K</b> <b>2.8 million</b> <b>34K</b> <b>25 ft.lb/in</b>	<b>1.55</b> <b>80K</b> <b>5.7 million</b> <b>49K</b> <b>12 ft.lb/in</b>