

Alchemix® Vacuum Forming Resins
For High Performance Vacuum Forming

| Alchemix Code | EP 420 | EP 424 +S | EP 425 +S | EP 426 +S | PU 376 +S |
|---|----------------|-----------------------------------|----------------------------------|------------------------------|--------------------------------|
| Chemical Basis | <i>Epoxy</i> | <i>Epoxy</i> | <i>Epoxy</i> | <i>Epoxy</i> | <i>Polyurethane</i> |
| Colour | <i>Grey</i> | <i>Grey</i> | <i>Grey</i> | <i>Grey</i> | <i>Grey</i> |
| Mix Ratio By weight | <i>100:5</i> | <i>100:6</i> | <i>100:10</i> | <i>100:6</i> | <i>100:15</i> |
| Mixed Viscosity, cPs | <i>350 000</i> | <i>32 000</i> | <i>2000-4000</i> | <i>5000</i> | <i>1500</i> |
| Pot Life, mins (1 kg) @ 20°C | <i>70-90</i> | <i>30-50</i> <i>90-120 (s)</i> | <i>120</i> <i>150-180 (s)</i> | <i>120</i> <i>180 (s)</i> | <i>4-5</i> <i>10-12 (s)</i> |
| Demould Time, Hrs | <i>12-24</i> | <i>12-24</i> | <i>12-16</i> | <i>12-24</i> | <i>1</i> <i>4-6 (s)</i> |
| Shore Hardness | <i>90</i> | <i>87</i> | <i>90</i> | <i>85</i> | <i>80-85</i> |
| Flexural Strength, MPa | <i>80-90</i> | <i>60-70</i> | <i>90-100</i> | <i>75</i> | |
| Compressive Strength, MPa | <i>150-160</i> | <i>120-140</i> | <i>140</i> | <i>125</i> | |
| Density, g/ml | <i>3.0-3.5</i> | <i>1.7</i> | <i>1.5</i> | <i>1.5-1.6</i> | <i>1.65</i> |
| H.D.T, °C | <i>90-95</i> | <i>80</i> | <i>160</i> | <i>80</i> | <i>110-120</i> |