

## Dalchem – Technique TC90A Black

**Product Characteristics:** Technique TC90A Black is a flexible, black, plural component polyurethane elastomer that offers good mechanical properties and fast demoulding.

**Benefits:** Technique TC90A Black is rapid setting and demonstrates more strength and flexibility than other similar materials. TC90A Black has good UV stability. The system is easy to process either by hand mixing or machine dispensing.

<b>Colour:</b>	<b>Black when mixed (Polyol-Black liquid, Isocyanate-Amber liquid)</b>
<b>Specific Gravity:</b>	<b>Polyol 1.03 Isocyanate 1.21</b>
<b>Hardness:</b>	<b>90 Shore A</b>
<b>Pot Life:</b>	<b>7 - 9 minutes</b>
<b>Demould Time:</b>	<b>15-30 minutes typically</b>
<b>Application:</b>	<b>Optimum @ 25°C</b>
<b>Mix Ratio:</b>	<b>2: 1 by weight (Polyol: Isocyanate)</b>
<b>Viscosity:</b>	<b>Polyol (A) 1,800 cps, Isocyanate (B) 160cps @ 85°C</b>
<b>Tensile Strength:</b>	<b>14mpa</b>
<b>Elongation at Break:</b>	<b>275%</b>
<b>Flexural Modulus:</b>	<b>67mpa</b>
<b>Temperature Resistance:</b>	<b>&gt;60°C</b>
<b>Shelf life:</b>	<b>6 month from Date of Manufacture</b>



## **Dalchem – Technique TC90A Black**

### **Recommended Processing Details**

Polyol and Isocyanate components should be used @ 25°C

Mould Temperature: 70°C - 80°C

Typical Demould Time: 15 – 30 minutes

### **Cure Cycle**

The Technique TC90A Black will cure at ambient temperature, however a post cure of approximately 1 hour at 70°C - 80°C will ensure that optimum cured properties are achieved. This is important for thin sections of <5mm are cast

The system can be processed by machine or hand cast. With hand casting the mixed component should be vacuum degassed for best results

**Applications:** TC90A is recommended for applications where a “non slip firm rubber feel” is desired. It is commonly used to make models of all kinds, artwork, industrial parts and hand held components.

Refer to the Material Safety Data Sheet for safe handling practices.

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