

## DuroFlex 95

*Two Part, Flexible Polyurethane System*  
*95 Shore A Hardness*

DuroFlex 95 is a tough, durable, polyurethane elastomer of 95 Shore A, used for mould making or prototype parts requiring high tear strength and excellent abrasion resistance.

### Special Features

- High tear strength
- Tough and durable
- Excellent abrasion resistance

### Mix Ratio

**Part A : Part B**  
By Weight 100 : 100

### Product Data

Property	Units	DF95 A	DF95 B	Mix
Material	-	Formulated Polyol	Isocyanate	Polyurethane
Appearance	-	Amber Liquid	Amber Liquid	Amber Liquid
Viscosity (25°C)	mPa.s	800 – 1100	250 – 450	600 – 900
Density (25°C)	g/cm <sup>3</sup>	1.02 – 1.07	1.02 – 1.07	1.02 – 1.07
Pot life (200g, 25°C)	Minutes	-	-	4 min – 4 min 30
Demould Time (25°C)	Hours	-	-	1
Full Cure (25°C)	Days	-	-	7

## Cured Properties

Properties	Standard	Units	Result (Full Cure)
Hardness	BS EN ISO 868	Shore A	93 – 97
Tensile Strength	BS EN ISO 37	MPa	9 – 10
Elongation at Break	BS EN ISO 37	%	340 – 400
Tear Strength	BS EN ISO 34	kN/m	65 – 75
Linear Shrinkage	500 x 50 x 10mm	%	< 0.2

## Mould Preparation

Ensure that the mould is clean and dry and if the mould is made from metal, wood or resin, use a wax based release agent such as a Macwax. Wooden moulds should be sealed well before casting.

## Mixing Instructions

Shake the Part A container thoroughly in order to homogenize the resin. Ensure that both components are at least 20°C before mixing.

Part A should be mixed with Part B according to the indicated mixing ratio. Both components should be thoroughly mixed, care should be taken to avoid air entrapment and make certain that material at bottom and sides of container is thoroughly stirred into the centre. After thorough mixing, the material should be poured into the mould. To avoid air entrapment, pour the material slowly, and into one place in the mould. In order to obtain a bubble free cast, the material should be degassed after mixing and pouring. Mixing, pouring and degassing must be completed within the stated pot life.

## Curing and post curing

The precise demould time will vary with the casting thickness, as thin sections will cure slower than thicker sections. If cured at room temperature, the casting can generally be demoulded after 1 hour. If quicker demould times are required, the product can be cured at elevated temperatures (up to 80°C). Curing at high

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temperatures will increase shrinkage, but will decrease demould times dramatically.

## **Storage**

Part A and B should be stored in original, unopened containers between 20 and 25°C. Part B may crystallize partially or completely if not stored at above 20°C. Like all polyurethanes, both components are moisture sensitive. Moisture absorption will cause excessive aeration in cast parts.

## **KEEP THE PACKING TIGHTLY SEALED WHEN NOT IN USE.**

If stored under the above conditions, Part A and B will have a shelf life of 6 months, from the date of production.

## **Further Information**

This data is not to be used for specifications. Values listed are for typical properties and should not be considered minimum or maximum.

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Before using any of our products, users should familiarize themselves with the relevant Technical and SDS provided.

