

### APPLICATIONS

- ❖ HIGH IMPACT MOULDINGS
- ❖ THIN WALLED MOULDED SECTIONS
- ❖ FILLED AND UNFILLED CASTINGS WITH RAPID DEMOULD TIMES

### PROPERTIES

- ❖ HIGH MECHANICAL PROPERTIES
- ❖ GOOD FLOWABILITY
- ❖ FAST DEMOULD TIME

### LIQUID COMPONENTS

PROCESSING PROPERTIES	UNITS	RIM 180-A	RIM 180-B
SPECIFIC GRAVITY	g/ml	1.03	1.24
VISCOSITY @ 25°C	mPa.s	2000	180
MIXING RATIO	w/w	100	75
GELTIME (100g) @ 25°C	min	3	
DEMOULD TIME	min	20-25	
FULL CURE TIME	days	1	

### CURED LAB SAMPLE

TYPICAL PHYSICAL PROPERTIES	UNITS	MOULDED ITEM
COLOUR	g/ml	Black
DENSITY	kg/m <sup>3</sup>	1150
SHORE HARDNESS	Shore D	77
FLEXURAL STRENGTH	MPa	50-55
FLEXURAL MODULUS	MPa	1200-1300
TENSILE STRENGTH	MPa	30-40
ULTIMATE ELONGATION	%	18-20
IMPACT STRENGTH	kJ/m <sup>2</sup>	50-70
HEAT DISTORTION TEMPERATURE	°C	110 (post-cured)

### FILLERS:

A variety of fillers can be added to RIM 180 including calcium carbonate, aluminium hydroxide and barytes.

Please contact Ru-bix Tooling Board for further information on suggested addition levels and the influence on mechanical properties.

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Product Characteristics: Low viscosity chemicals, good flowability in complex moulds.  
Good wettability with fillers.  
High filler loadings possible.  
Very fine surface detail.  
Short demould time.  
Good impact strength.  
Can be used for thin and thick moulded sections.

Processing Guide: Parts A and B should be well agitated before use.  
Chemicals and moulds should be maintained at 20-25°C.  
If using fillers, ensure they are finely dispersed in RIM 180-A.  
If applying to a wooden surface, ensure that it is properly sealed before application of the mixed resin.

Storage/Disposal: If stored at 15-25°C in unopened containers, the products will have a shelf life of 12 months. They should not be stored outside of these limits. Once containers are opened, they should be closed as soon as possible in order to prevent the ingress of moisture.  
Packaging that cannot be thoroughly cleaned should be disposed of as product waste.

Legal Disclaimer: Recommendations and technical information are provided in good faith, based on current knowledge and experience. However, due to variations in storage conditions, storage period, substrates and site conditions, no warranty in respect of fitness for purpose can be inferred from this information. The user must test the product's suitability for the intended application. Ru-bix Tooling Board is happy to provide free-issue samples for this purpose. All orders are accepted subject to our current terms of sale, a copy of which can be obtained from the Ru-bix office.

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