

MP304TC

Application

- Cable blocking
- Insulation
- Anti-vibration

Key Properties

- Closed cell
- Fast curing
- Non-shrinking

Description

- Basic Two-component rigid foam
- Resin RP304TC
- Hardener HP304TC

Physical Data

	Resin	Hardener	Mixed
Colour	Clear	Brown	Beige
Specific Gravity	1.04	1.23	1.13
Viscosity (mPas) @ 25°C	800	550	650

The above are typical values and will vary depending on the cured mass and application. Hotter temperatures may be used for faster cure but will result in higher post cure shrinkage and higher cure exotherm. Experimentation and testing is suggested to avoid side effects.

Processing

Mix ratio by weight 0.85: 1
Mix ratio by volume 1: 1

Typical Properties

Test	Result	Unit
Thermal Conductivity	0.03	W/m. K
Co-efficient of thermal expansion	60-80	ppm/°C
Dielectric constant (@ 25°C)	1.5	50hz
Operating Temperature range	-60 to +130	°C
Compressive strength	0.10	MPa
Tack Free Time	4	minutes
Cream Time	15	seconds
Rise Time	150	seconds
Blow Ratio	10:1	
Exotherm (100g)	80	°C

Approvals

RoHS compliant	Yes
REACH (SVHC concentration)	0%

Packaging

Available in: Bulk, Twinpacks, Kits and sets. Cartridges depend on mix ratio

Availability

Contact sales on +44 (0) 1793 823741 or sales@robnor.co.uk

Cartridge Mixing

MP304TC/NC/200TC	

It is essential for best results that the cartridge is 'balanced' before use to ensure correct mixing. Loading the cartridge into the gun before attaching the mixer element and pumping the gun to push a small amount of the contents forward will achieve this. Wipe the excess from the cartridge tip and add the static mixer. The cartridge is now ready for use.

Twinpacks

Not available	
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Twinpacks are pre-weighed resin and hardener components contained in a tough flexible film, separated by a removable clip and rail.

Once the clip and rail is removed the resin and hardener is thoroughly mixed within the bag and is immediately ready for use. Mixing will normally take ~ 3 minutes due to the viscosity; but pay special attention to the corners.

Twinpacks are ideal for small to medium production runs, prototyping and on-site or field use.

The twinpack weight/volume may also be tailored to a specific size on request.

For further details please visit www.robnor.co.uk

Bulk Materials

RP304TC/NC/5KG	RP304TC/NC/20KG
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Both resin and hardener are supplied fully evacuated and ready for use.

Care should be taken to ensure when mixing the resins air is not entrained in the mixture.

If this is unavoidable the mixed resin and hardener should be re-evacuated before dispensing.

The bulk resin and hardener materials can be dispensed from suitable dispensing machinery and Robnor Resins produce a range of these machines, details that can be provided on request.

Kits and Sets

MP304TC/NC/1KGKIT	
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MP304TC/NC/1.18KGKIT	
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Kits and Sets are provided in separate containers to the correct ratio.

In Kit form, pour the hardener into the larger resin container and use it as a mixing vessel.

Stir well using an appropriate mixer until homogeneous.

Note: Incomplete mixing will be characterised by erratic or partially incomplete cure even after extended time periods.

Storage and Shelf Life

Material stored in the original unopened containers under cool dry condition between 15° and 25°C will have a shelf life of at least one year.

Once used the containers must be kept sealed to prevent effects from water, air or contaminants.

Health and Safety

Resin systems may cause sensitisation by skin contact or inhalation may be corrosive, harmful or toxic. It is therefore strongly recommended that skin and eye contact is avoided by the using of appropriate personal protective equipment such as gloves, safety glasses or goggles and overalls. Wash any contamination from the skin immediately and thoroughly and do not eat, smoke or drink in the working vicinity. Under normal working conditions a good source of ventilation is adequate, however if the material is heated, or where vapour levels are likely to exceed the occupational exposure limits appropriate respiratory protection must be worn. Local exhaust ventilation (LEV) may be required especially for curing ovens or where large volumes of material are curing. The above is given as a guide only; please refer to RP/HP304TC Health and Safety data or our Technical Service Department for individual/specific advice.

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The results and information above does not constitute a specification and is given in good faith and without warranty.

The information is derived from test/or extrapolations believed to be reliable and is quoted for guidance only.

The product is offered for evaluation on the understanding the customer satisfies himself that the product is suitable for his intended by proper evaluation and testing.

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