

MP304H

A two-part rigid polyurethane foam used for space filling, Insulation and protection

Application Key Properties

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| <ul style="list-style-type: none"> • Cable blocking • Insulation • Anti-vibration | <ul style="list-style-type: none"> • Closed cell • Fast curing • Non-shrinking |
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Description

- Basic Two-component system
- Resin RP304H
- Hardener HP304H

Physical Data (approx. – values)

	Resin	Hardener	Mixed
Colour	Straw	Brown	Beige
Specific Gravity	1.04	1.24	1.13
Viscosity mPas @ 25°C	800	350	500

Cure Schedule (150ml sample)

Temperature	Working Life (seconds)	Gel Time (minutes)	Light Handling (minutes)	Full Cure (minutes)
20°C	20	10	15	30
30°C	10	8	10	20

*RT is defined as 20-25°C

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. For maximum properties a post cure may be required – Contact our technical service department for advice.

Processing

Mix Ratio by Weight 1:1
Mix Ratio by Volume 1.2: 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	10	Minutes
Cream Time	30	Seconds
Rise Time	150	Seconds
Blow Ratio	10: 1	
Exotherm (100g)	78	°C

Approvals

RoHS compliant	Yes
UL94-V0	No
REACH (SVHC concentration)	0%

Packaging

MP304H is available in bulk containers and kits

Availability

Available through distribution www.resins-online.com and sales@robnor.co.uk

Bulk Materials

RP304H/BK/5KG	RP304H/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, details provided by Fluid Research on request.

Kits and Sets

MP304H/NC/1KGKIT	
MP304H/NC/1.18KGKIT	

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

Resins, hardeners and solvents 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 spraying conditions where vapour levels are likely to exceed the occupational exposure limits appropriate respiratory protection must be worn.

A suitable spray booth should be used with appropriate solvent scrubbing, cleaning and collection facilities. Local exhaust ventilation (LEV) will 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/HP304H 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 the intended application by proper evaluation and testing.

Contact Details

Robnor ResinLab Limited
31 Athena Avenue
Elgin Industrial Estate
Swindon
SN2 8EJ
United Kingdom

Tel: +44 (0) 1793 823741
Fax: +44 (0) 1793 827033
Email: support@robnor.co.uk
Web: www.robnor-resinlab.com
Buy Online: www.resins-online.com (UK only)