

20-2024

LOW DENSITY RIGID POLYURETHANE FOAM

DESCRIPTION:

20-2024 is a low viscosity, two component, closed cell urethane foam. This is a rigid, non-CFC containing foam.

20-2024 can be used for potting, encapsulating, thermal insulation, flotation devices, sandwich panel cores, etc...

TYPICAL PROPERTIES:

Viscosity, cps, 25°C	
Resin	500
Catalyst	150-350
Mix Ratio, (Resin:Catalyst)	
By Weight	100:125
Color	Tan/ Off-White
Hardness, Shore D	38
Operating Temperature Range, °C	-50 to +125
Cream Time, seconds	32-36
Gel Time, minutes	1.5
Rise Time, minutes	3.33
Tack Free Time, minutes	6
Specific Gravity, 25°C	
Resin	1.17
Catalyst	1.24
Density, Lbs./Ft ³	1.8-2.2
Compression Strength, ASTM D-1621-73, Parallel, psi	40.35
Compressive Modulus, ASTM D-1621-73, Parallel, psi	1036.0
Shear Strength, ASTM C-273, Parallel, psi	37.0
Flexural Strength, ASTM D-790, Parallel, psi	106.0
Heat Distortion Resistance, 3 Days, 94°C	Excellent
Coefficient of Linear Expansion, 1/°C	7.375
Thermal Conductivity W/m-K	0.02
Water absorption, gm/cm ²	0.315
Water vapor permeability, perm. in.	1.72
Humidity Aging, 158°F, 98% RH	
a) 1 day weight change %	+0.96
1 day volume change %	-1.13
b) 7 days weight change %	+1.1
7 days volume change %	-1.15
Percent of closed cells	90

**INSTRUCTIONS FOR USE:**

- 1) By weight mix 100 parts Resin to 125 parts Catalyst.
- 2) Mechanical mixing is preferred over hand mixing.
- 3) Pour and allow to foam.
- 4) Demold in 10-12 minutes.

TOXICITY, HANDLING, AND STORAGE:

Contains reactive isocyanate. Avoid breathing vapors and use adequate ventilation. Wear protective clothing, gloves and protective eyeglasses. In case of eye contact flush with water. In case of skin contact wash with soap and water.

Store between 65-85°F in dry area. Avoid sunlight, heat, and freezing. Keep away from moisture which can create pressure and rupture the container. Keep container closed when not using.

PACKAGING:

20-2024 is available in quart and gallon containers.

IMPORTANT:

EPOXIES, ETC. MAKES NO EXPRESS OR IMPLIED WARRANTIES OR MERCHANTABILITY, FITNESS OR OTHERWISE WITH RESPECT TO ITS PRODUCTS. The information in this brochure is based on data obtained by our own research and is considered reliable. However, no warranty is expressed or implied regarding the accuracy of these data, the results to be obtained from the use thereof, or that any such use will not infringe any patent. The properties given are typical values and are not intended for use in preparing specifications. This information is furnished upon the condition that the person receiving it shall make his own tests to determine the suitability thereof for his particular purpose.

9/2025