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ELASTOPOR[®] R 7331 SYSTEM

TECHNICAL DATA SHEET

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DESCRIPTION

Elastopor® R 7331 System is a two-component, rigid polyurethane foam system comprised of Elastopor® R 7331 Resin and Elastopor® P 1046U Isocyanate. This system is designed specifically for bunstock applications.

The desired foam performance and suitability for use must be tested and qualified by the end user.

ELASTOPOR® R 7331 RESIN COMPONENT

<u>Appearance</u>	Amber Liquid
<u>Specific Gravity @ 25°C (77°F)</u>	1.12
<u>Viscosity @ 25°C (77°F)</u>	750 ± 150 mPa.s (cPs)

ELASTOPOR® P 1046U ISOCYANATE COMPONENT

<u>Appearance</u>	Dark Brown Liquid
<u>Specific Gravity @ 25°C (77°F)</u>	1.22
<u>Viscosity @ 25°C (77°F)</u>	700 ± 100 mPa.s (cPs)

For more information on this product, please contact the BASF Tech Desk at 800.527.8324 or techquestions.na@basf.com

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"WARNING" These products can be used to prepare a variety of polyurethane products. Polyurethanes are organic materials and must be considered combustible.

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MIX RATIO

Parts by Weight	100 Resin / 110 Isocyanate
Parts by Volume	100 Resin / 100 Isocyanate

HAND MIX REACTIVITY

Component Temperatures Resin / Isocyanate	21 / 21°C (70 / 70°F)
Cream Time	30 ± 5 s
Gel Time	170 ± 10 s
Cup Density	2.55 ± 0.05 pcf (40.8 ± 8 kg/m³)

PROCESS RECOMMENDATIONS

This system processes well on high pressure equipment using a straight or L-head.

Component Temperatures Resin / Isocyanate	20-25 / 20-25°C (68-77 / 68-77°F)
Component Pressures	124-152 bars (1800-2200 psi)
Substrate Temperature	25-30°C (77-86°F)

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TYPICAL PHYSICAL PROPERTIES

Physical properties were measured on a 12 x 12 x 4" hand-mix block.

Overall Density, ASTM D1622	2.78 pcf (44.5 kg/m³)
Core Density, ASTM D1622	2.45 pcf (39.2 kg/m³)
Parallel Compressive Strength @ 10%, ASTM D1621	174 kPa (25.3 psi)
Perpendicular Compressive Strength @ 10%, ASTM D1621	89 kPa (12.9 psi)
Initial Thermal Conductivity @ 22.5°C mean temperature, ASTM C518	0.0226 W/m.K
	0.157 Btu.in/Hr.ft².°F
Initial Thermal Resistance @ 22.5°C mean temperature, ASTM C518	44.17 m.K/W
	6.37 Hr.ft².°F/Btu.in
Dimensional Stability, 28 days, % Volume Change, ASTM D2126	1.5 % @ -20°C (-4°F)
	2.5 % @ 70°C (158°F)
	3.6 % @ 70°C, 97% RH

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STORAGE RECOMMENDATIONS

Resin	- Shelf Life	6 months
	- Temperature	10-25°C (50-77°F)
Isocyanate	- Shelf Life	12 months
	- Temperature	10-25°C (50-77°F)

SAFETY AND HANDLING REDOMMENDATIONS

- For information regarding safe product handling, consult the product Safety Data Sheet.
- For severe spills and emergencies contact CHEMTREC at 1-800-424-9300 or the BASF HOTLINE: 1-800-832-HELP (4357).

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