

# ELASTOPOR® H 53085 SYSTEM TECHNICAL DATA SHEET

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#### DESCRIPTION

Elastopor® H 53085 System is a two-component, rigid polyurethane foam system comprised of Elastopor® H 53085 Resin and Elastopor® P 1001U Isocyanate. This system utilizes water and HFO as blowing agents and is designed for rotary pipe applications. It provides a smooth surface for spray applied protective coatings. The desired foam performance and suitability for use at any service temperature must be tested and qualified by the end user.

#### **ELASTOPOR® H 53085 RESIN COMPONENT**

Appearance	Amber Liquid
Odor	Slight Amine
Specific Gravity @ 73°F	1.098
Resin Viscosity @ 73°F	500 cps
Flash Point, ASTM 3278-89	> 93°C (199 °F)

#### **ELASTOPOR® P 1001U ISOCYANATE COMPONENT**

Appearance	Dark Brown Liquid
Odor	Slight Aromatic
Viscosity @ 77°F	200 cps
Flash Point	>204 °C (400 °F)
Vapor Pressure at 20°C	0.00016 mm Hg
Specific Gravity @ 77°F	1.22

#### **MIX RATIO**

Parts by Weight	100 Resin/153 Isocyanate
Parts by Volume	100 Resin/135 Isocyanate

#### 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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TECHNICAL DATA SHEET

#### HANDMIX REACTIVITY

Component Temps Resin/Isocyanate	13 / 23 °C (55 °F / 73 °F)
Mix Time Jiffy Mixer @ 3100 rpm	4 seconds
Cream Time	6 - 10 seconds
Gel Time	17 - 23 seconds
Tack Free Time	22 - 32 seconds
Free Rise Density #10 Cup	2.75- 3.25 pcf

#### DIMENSIONAL STABILITY, % VOLUME CHANGE, ASTM D2126

158°F / 100% RH 1 day	2.35
158°F / 100% RH 2 days	-0.54
158°F / 100% RH 7 days	0.74
158°F / 100% RH 14 days	1.42
158°F / 100% RH 28 days	0.19

#### STORAGE RECOMMENDATIONS

Resin - Shelf Life	180 days
- Temperature	16 - 27 °C (60-80 °F)
Isocyanate - Shelf Life	365 days
- Temperature	10 - 25 °C (50 - 77 °F)

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#### **TYPICAL PHYSICAL PROPERTIES**

Core Density, ASTM D1622	2.45pcf (free rise bun)
Compressive Strength @10% deflection, ASTM D1621	45 psi
Friability, ASTM C421	2.28 %
WVT, ASTM E96	3.22 perm-in
Water Absorption, ASTM D2842	0.0301 lb/ft <sup>2</sup>
Closed Cells, ASTM D6226	>90% (uncorrected)
рН, ЕN 13468	6.45
Chloride Content, EN 13468	44 ppm
Ring Shear	tbd MPa
k Factor: Initial, ASTM C518	0.157 BTU-IN/HR-FT <sup>2</sup> -°F

#### SAFETY AND HANDLING RECOMMENDATIONS

- 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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### ELASTOPOR® H 53085RESIN/ELASTOPOR® P 1001U ISOCYANATE DYNAMIC MECHANICAL ANALYSIS, ASTM D4065



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