



POR-A-KAST™ 5021

Preliminary Data Sheet

APPLICATIONS

Por-A-Kast™ 5021 can be used for a variety of end products in the art, hobbyist, pattern, taxidermy, sculpture and industrial worlds.

PROPERTIES OF POR-A-KAST™ 5021

	CURATIVE	PREPOLYMER
Brookfield Viscosity @ 25°C, CPS	1280	80
Specific Gravity @ 25°C,	1.061	1.094
Color, Curative/Prepol	colorless	yellow

PROPERTIES OF MIXED POR-A-KAST™ 5021

Mix Ratio by weight, Curative : Prepol	46 :100
Mix Ratio by volume, Curative : Prepol	1 :2
Mix Time	45-60 Seconds
Pot Life (bulk mix)	4.5 – 6.5 Minutes

PROPERTIES OF CURED POR-A-KAST™ 5021

Durometer Hardness, Shore D	75
Color	White

Recommended Storage Procedures

POR-A-KAST™ 5021 Prepolymer

The reaction of isocyanates and water leads to the formation of insoluble ureas and carbon dioxide gas which can result in pressure buildup inside closed containers. Therefore, extreme care must be taken to assure containers of POR-A-KAST™ 5021 Prepolymer remain dry. Containers that have become contaminated with moisture should not be subsequently sealed as a hazardous increase in pressure may occur. Reaction with atmospheric moisture can be prevented by storing with a dry nitrogen pad on the product.

Storage of POR-A-KAST™ 5021 Prepolymer should be within the temperature range of 20°C (70°F) to 35°C (95°F). Below this temperature the product may crystallize and at higher temperatures, isocyanate dimer formation will occur, resulting in a loss of reactivity. Under the proper storage conditions, POR-A-KAST™ 5021 Prepolymer should be free of precipitated dimer and haze for at least four months.



POR-A-KAST™ 5021

POR-A-KAST™ 5021 Curative

It is recommended that POR-A-KAST™ 5021 Curative be stored under dry conditions below 55°C (130°F). A dry nitrogen pad should be kept on the material and the storage containers should be kept tightly sealed when not in use. POR-A-KAST™ 5021 Curative is hygroscopic and will readily absorb moisture from the atmosphere. Excess moisture in the POR-A-KAST™ 5021 Curative could result in foam bubbles in the final polymer due to the reaction of the water and the isocyanate.

Note: The above information was generated using laboratory prepared specimens and is not intended for specification purposes. Please contact PUMA Polymers to obtain specification information.

ATTENTION

Read MATERIAL SAFETY DATA SHEET.

Use only in WELL VENTILATED areas. Avoid contact with skin. Wear CHEMICALLY RESISTANT RUBBER GLOVES, RUBBER APRON and SAFETY GLASSES. If swallowed, or in the event of contact with eyes, IMMEDIATE MEDICAL ATTENTION is advised. Read MATERIAL SAFETY DATA SHEET.

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