

## PUT-5701

### Two-part Polyurethane for Enclosure

PUT-5701 is FIPFG - Formed In Place Foam Gaskets which help to meet the demand for sealing quality and contour-accurate tightness of the components. PUT -5701 consists of a fluid to paste-like A-component (polyol) with varying molecular chain lengths for soft and hard foams and a hardener, the B-component (MDI). When mixing and curing, a soft foam seal is formed which cures at room temperature, without the use of a tempering furnace.

### FEATURE

- Fully automatic, process-safe, flexible
- Fast, economical and efficient
- Low personnel expenses due to high degree of automation
- Short production cycles and high production speeds
- Reproducible quality of seamless, contour accurate foam seals
- Fast invisible self-levelling coupling point
- Free application process – no forming tools required as with 2K injection moulding
- Cost-effective alternative, especially for complex component geometries.

Thermal treatment (tempering) accelerates the hardening process. The adhesion to the substrate can be enhanced by bonding agents (primers or physical pre-treatments) or prevented by releasing the agents.

### TYPICAL CURED PROPERTIES

Properties	PUT-5701
Hardness (Depends on the Temperature and humidity) (Shore A)	40 ~ 65
Tensile strength (Mp)	0.3
Elongation at break (%)	105
Compress recuperation (long-term) °C	~ -40 - +90
Temperature resistance (short-term) °C	~ -60 - +190
Color of reacted product (RAL)	Black
Water absorption (weight-%)	< 10
NCO content	25.3%-26.5%

### TYPICAL UNCURED PROPERTIES

Properties	PUT-5701-A	PUT-5701-B
Appearance	Paste	Paste
Color	Black	Brown
Viscosity *23°C, mPa*s	2000 - 5,000	110 - 250
Density without air loading [at 23°C]	1.16	0.98

### TYPICAL CURING PROPERTIES

Properties	PUT-5701
Mix Ratio (A:B) by Weight	5:1
Tack-free time, min	4 ~ 6
Full cure time, h	24

### STORAGE AND SHELF LIFE

Both components must be stored in tightly sealed containers. Absolutely keep away from water and atmospheric humidity (use silica gel cartridge if necessary). The storage temperature should not exceed +30°C or drop below 10°C. The containers must immediately be resealed after use. Opened drums are to be used up promptly. If these instructions are observed, the materials are storable at least 12 months.

### DIRECTION OF USE

Homogenize the resin (A-component) well in the drum before use. Both 2 components are designed to use on a standard dosing and metering unit for 2K polyurethane gaskets. The optimum ambient temperature during processing is 23-28°C.

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### INDUSTRIAL SAFETY

The hardener component contains isocyanate. It may cause irritation to the skin, eyes and respiratory tract, sensibilization of the skin and respiratory tract as a result of chronic exposure and trigger allergic reactions. Additional information is found in the safety data sheet. Please ensure cleanliness and good ventilation in the workplace. Protect eyes and skin. Dab off accidental splashes to the skin and remove with soapy water. In case of splashes into the eyes, immediately rinse under running water for 10-15 minutes and see a doctor.

The data contained in this bulletin is provided only as a guide for evaluation/consideration. These material characteristics are typical properties that are based on a limited number of samples tested in the laboratory. We cannot assume responsibility for results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any product or method. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide.