Data Sheet
Z-8684-8686 Polyurethane Compound

Product Name: Z-8684-8686
Revised: 9/5/2014
Supersedes: none

Description
Z-8684-8686 is a clear, rigid, light and weather stable polyurethane compound.

Hazards
Part A is manufactured for commercial use only. (See MSDS). Part B contains aliphatic diisocyanate and polymeric isocyanates (See MSDS for safe handling instructions).

Storage
Both Part A and Part B are sensitive to moisture and containers must be kept closed during storage. Storage temperature can be ambient, however the material should be warmed to 90 – 110°F before using.

Component Z-8685 Part A

Typical Liquid Properties
- Appearance: Clear to slightly hazy liquid with a slight yellow tint
- Specific Gravity: 1.05 @ 25°C
- Weight per Gallon: 8.75 @ 25°C
- Brookfield Viscosity: 170 +/- 50 Cps. @ 100°F #2 Spindle RVT @ 20 rpm
- Hydroxyl Value: 315-325
- Acid Value: less than 0.75
- Water Content: less than 0.05%
- Storage Life: At least 1 year in sealed drums or 5 gallon cans. 90 days in disposable bags.

Component Z-8686 Part B

Typical Liquid Properties
- Appearance: Clear liquid
- Specific Gravity: 1.10 @ 25°C
- Weight per Gallon: 9.13 @ 25°C
- Brookfield Viscosity: 450 +/- 200 Cps. RVT #2 Spindle, 50 rpm @ 100°F
- NCO Value: 24.5 +/- .05%
- Storage Life: At least 1 year in sealed drums or 5 gallon cans. 90 days in disposable bags.

All information, recommendations and suggestions contained herein are to the best of our knowledge true and accurate, but are made without guarantee. No warranty of fitness for a particular purpose is made. Nothing herein shall be construed to allow infringement of any patent.
Mixing Information
Ratio by Weight
Part A 49
Part B 51

Ratio by Volume
Part A 50
Part B 50

Curing
Gel Time  The 100°F, 100 gram geltime of Z-8684-8686 is adjustable from 2 to 25 minutes.
Standard product Z-8684-5.025 – Z-8686 4-7 minutes for a 100 gram mass @ 100°F.
Cure Time  100-200°F  4-16 hours

Typical Physical Properties
Hardness  65-80 Shore D
Heat Aging  7 days @ 85°C, no change
Weathering  1 year outdoor slight loss of gloss, no yellowing
Humidity Resistance  7 days 100%RH @ 100°F, no change
Heat Aging  7 days 80°C, no change
Shrinkage on Cure  0.5% cured at room temperature
1% cured at 75°C