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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