

# Capromer PD1 – 20

## (PolyCLO NPG2000)

### Technical Data Sheet

February 2009



#### CAS Registry Number

PolyCLO NPG2000: 69089-45-8

#### Description

Addition product of  $\epsilon$ -Caprolactone to Neopentyl glycol.

#### Synonyms

PolyCLO, PCLO, PCL

#### Safety

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on safety.

#### Packaging

PolyCLO is available currently in drums (200kg) or as samples of 1, 2, or 5 kg. Bulk or IBC on request.

#### Storage & Handling

No danger under normal handling temperatures. Immediately prior to use heat 10 to 20 °C above the melting point over night and agitate to mix well, particularly if haze or precipitated material is observed.

#### Characteristics

PolyCLO is a colorless to yellowish, viscous or waxy product, having primary hydroxyl groups.

Typical properties (preliminary)		Capromer™ PD1 – 20	Capromer™ PD1 – 20 A
Molecular weight	g/mol	2000	2000
OH number	mg KOH/g	54 - 58	54 - 58
Acid number	mg KOH/g	< 0,25	< 0,05
Viscosity (60°C)	mPas	400 - 550	400 - 550
Melting point	°C	40 – 50	40 – 50
Density	g/cm <sup>3</sup>	1,05 – 1,1	1,05 – 1,1

#### Applications

PolyCLO products are designed for the use in cast and TPU elastomers, adhesives, reactive diluents, and resin intermediates.

PolyCLO grades are used where the unique combination of properties including hydrolytic stability, excellent weatherability, good dynamic characteristics, and outstanding low temperature flexibility is desired.

#### Advantages

PolyCLO offers low color, good hydrolytic stability and weatherability. During manufacturing, PolyCLO provides an improved processability due to the low viscosity, high purity, exact functionality, and consistent reactivity.

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