



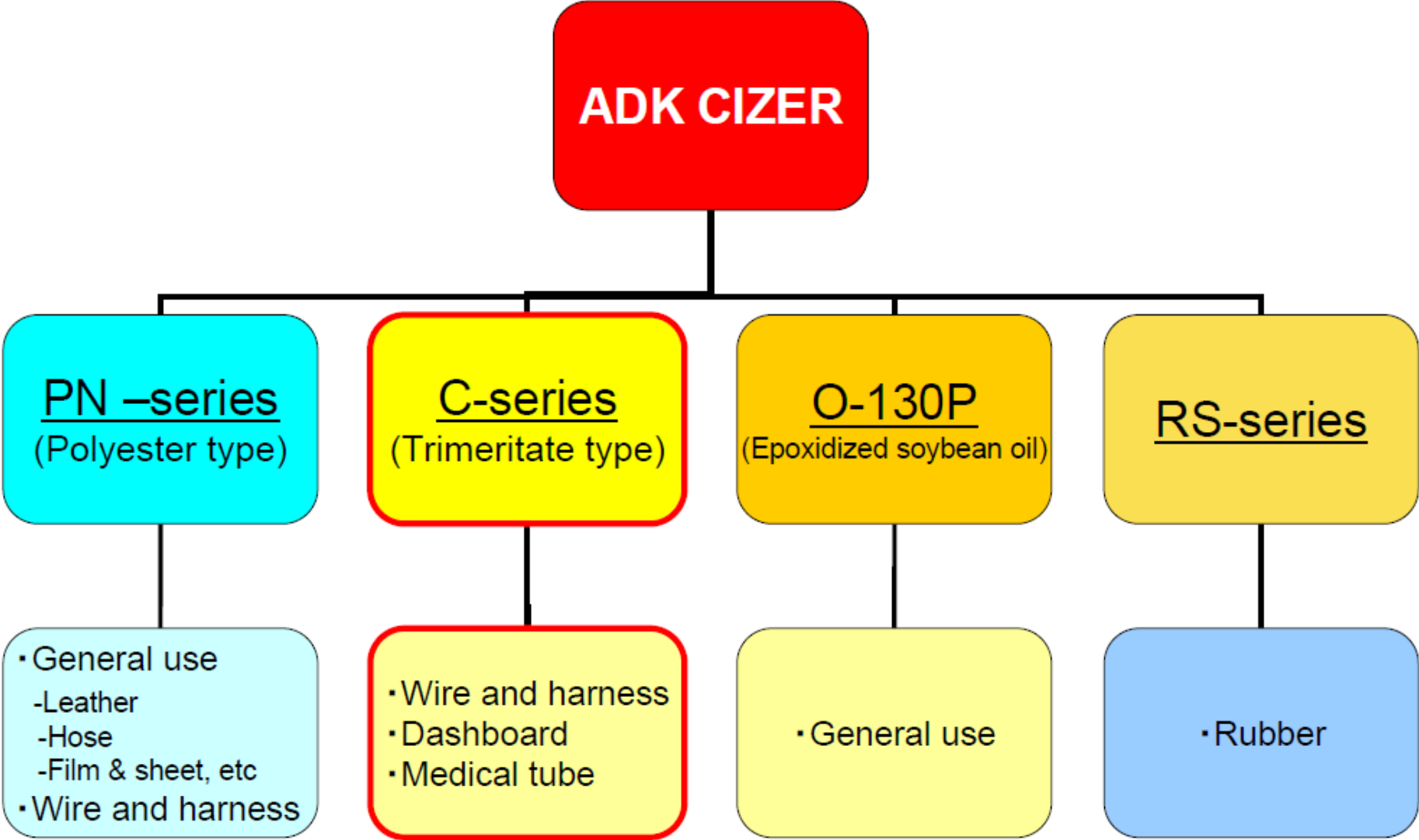
Technical information

ADK CIZER C-8L, C-810L

STABILIZERS DEPARTMENT, POLYMER ADDITIVES R&D LABORATORY
RESEARCH & DEVELOPMENT DIVISION

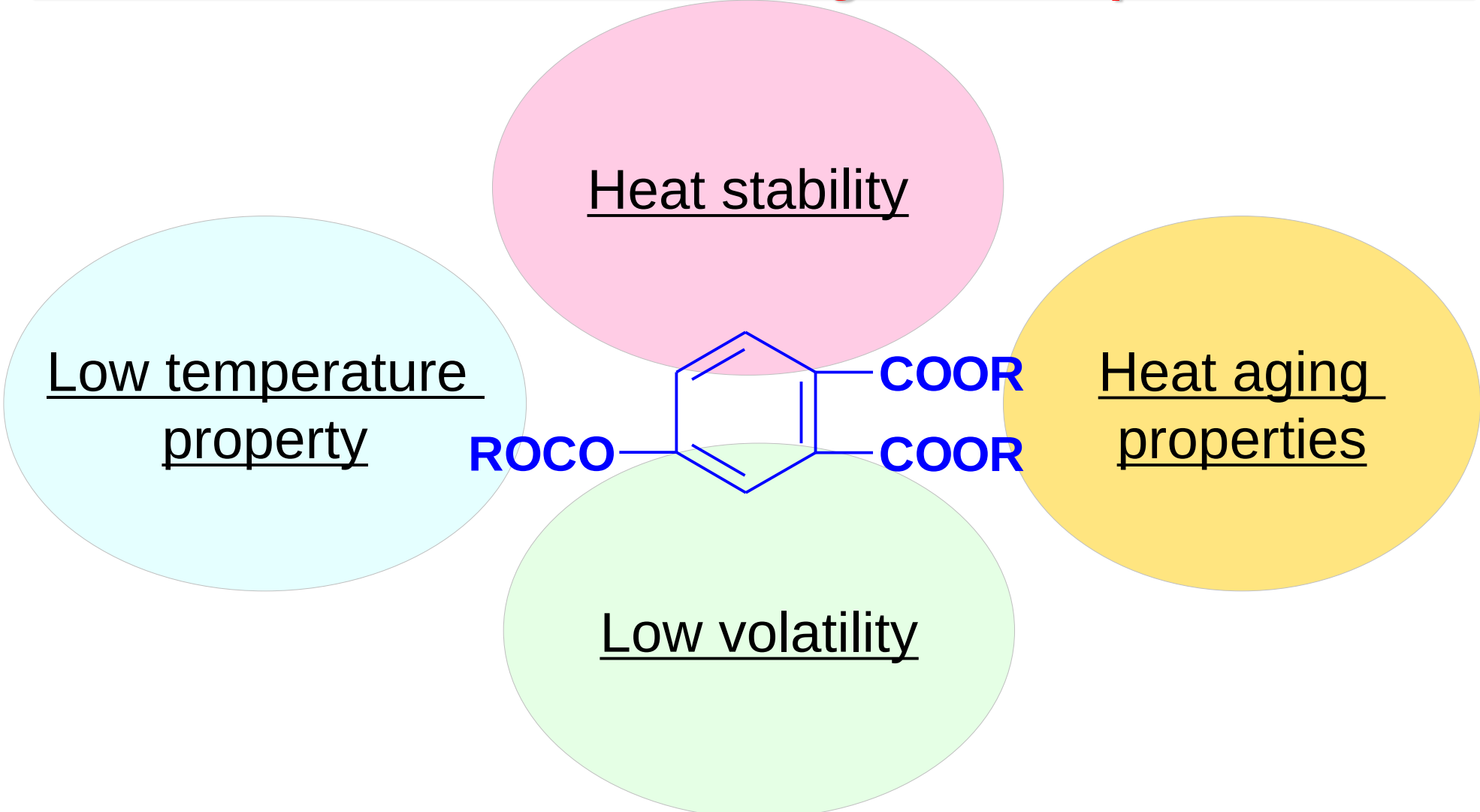
CONFIDENTIAL

ADK CIZER outline



ADK CIZER C-8L, C-810L

C-8L and C-810L shows following excellent performances.



For General use

- **Plasticizer absorption**
- **Static heat stability**
- **Color stability**
- **Low temperature flexibility**

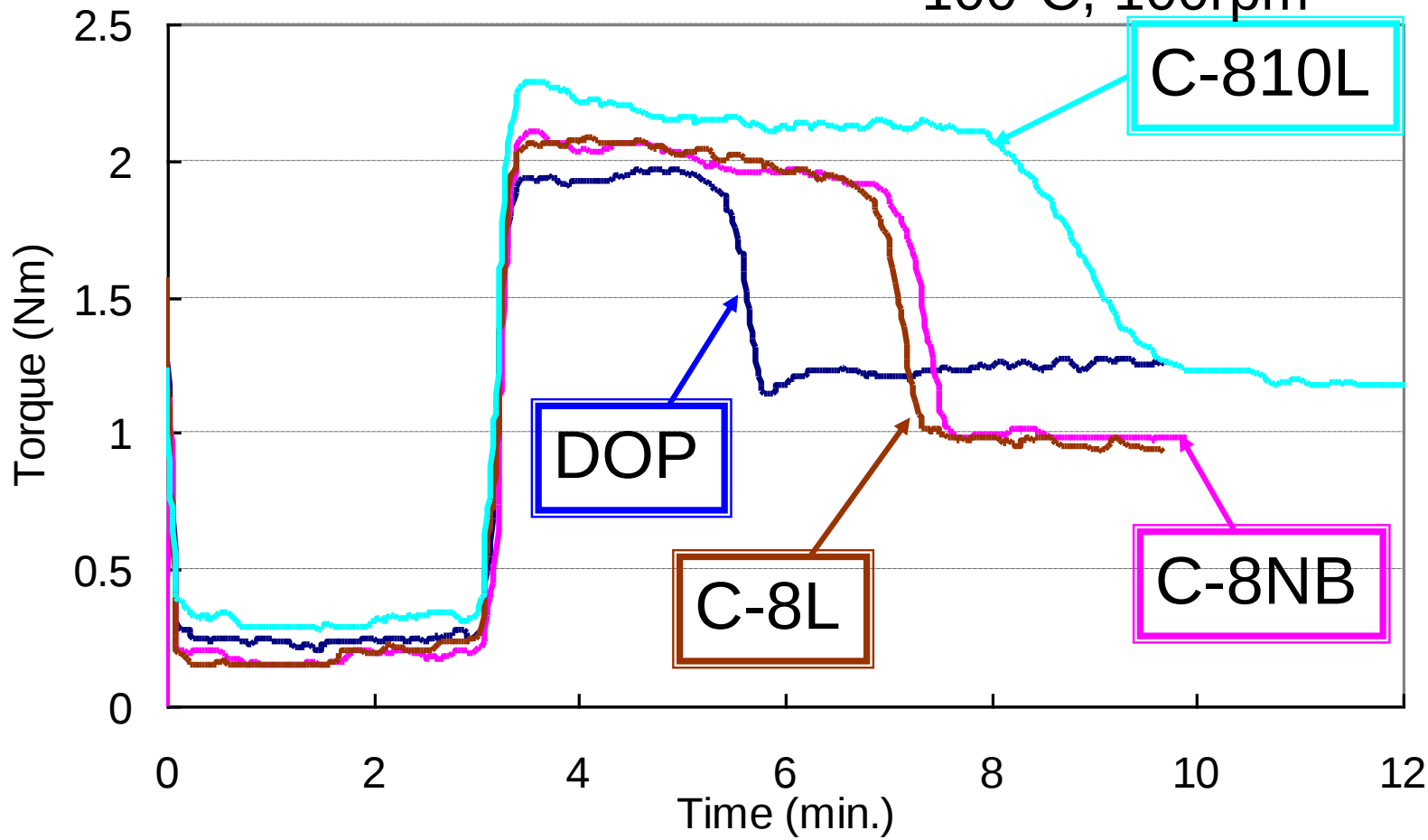
Formulation

PVC(p=1000)	100	
O-130P	3	(Epoxidized soybean oil)
AC-290	1	(Ba/Zn liquid stabilizer)
NPS-309	1	(Ba/Zn powder stabilizer)
<u>Cizer</u>	<u>50</u>	

Plasticizer absorption

100°C, 100rpm

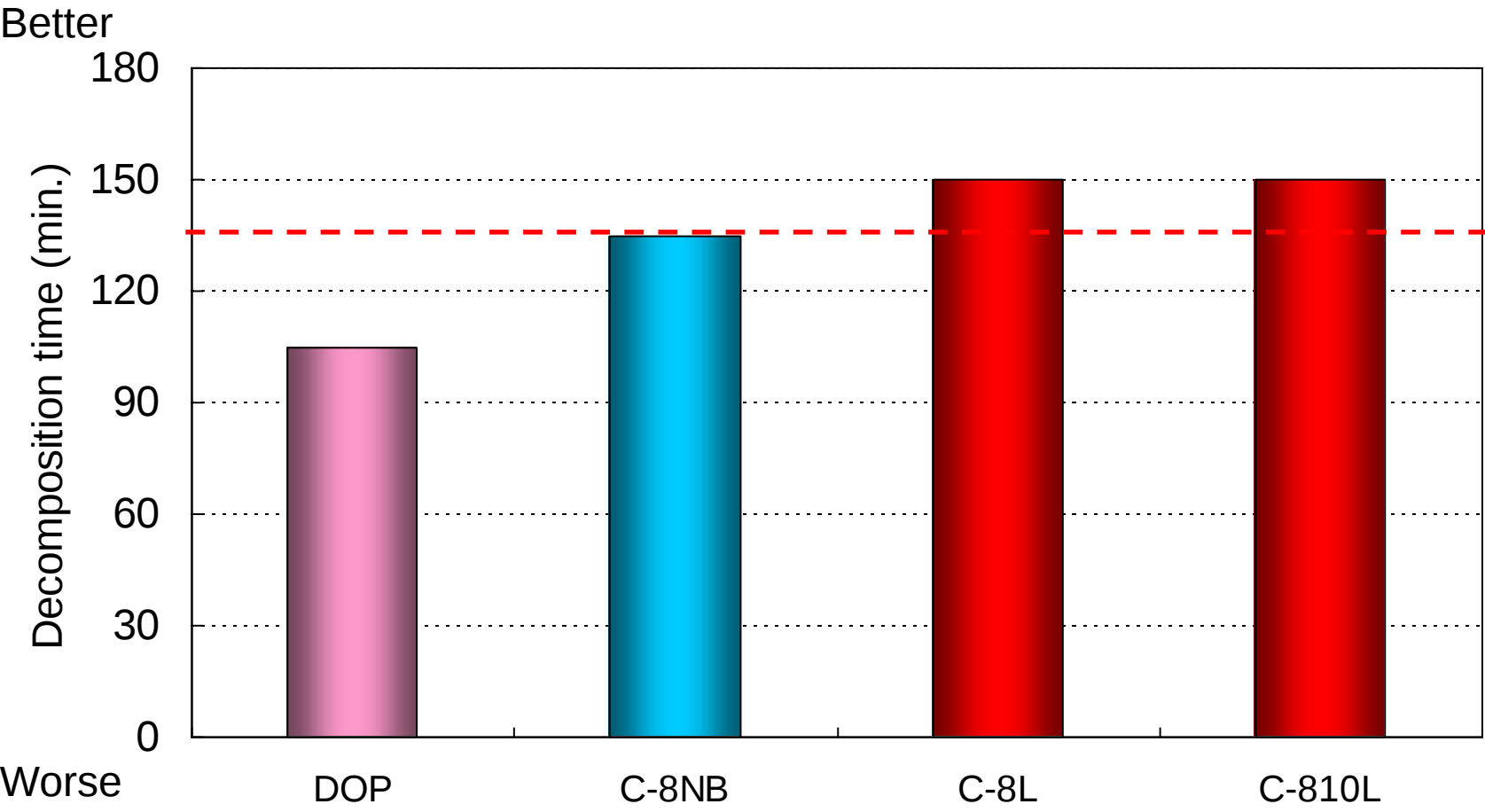
PVC	100
ESBO	3
AC-290	1
NPS-309	1
Cizer	50





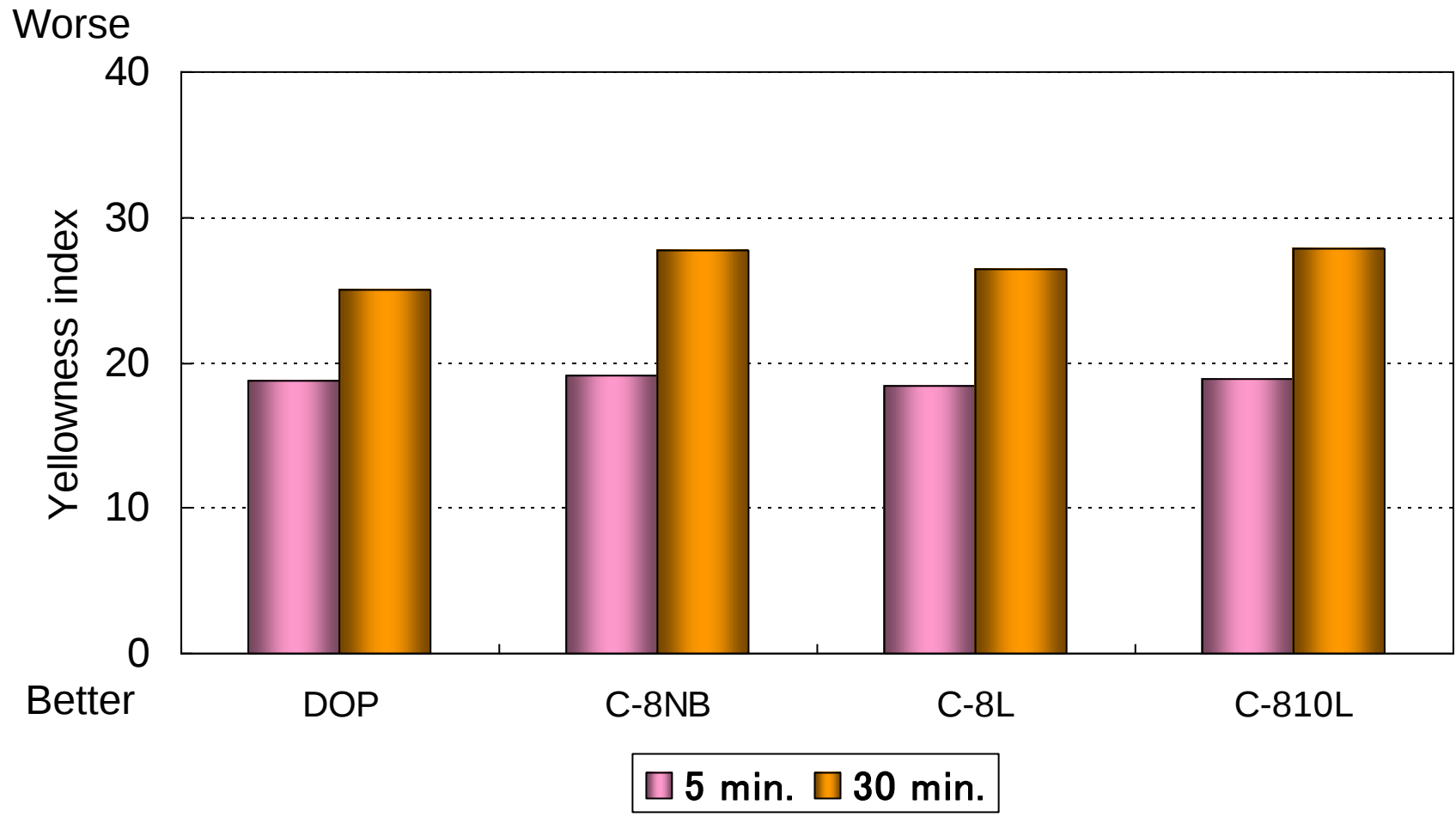
Static heat stability ~Oven test ; 190°C

PVC	100
ESBO	3
AC-290	1
NPS-309	1
<u>Cizer</u>	<u>50</u>

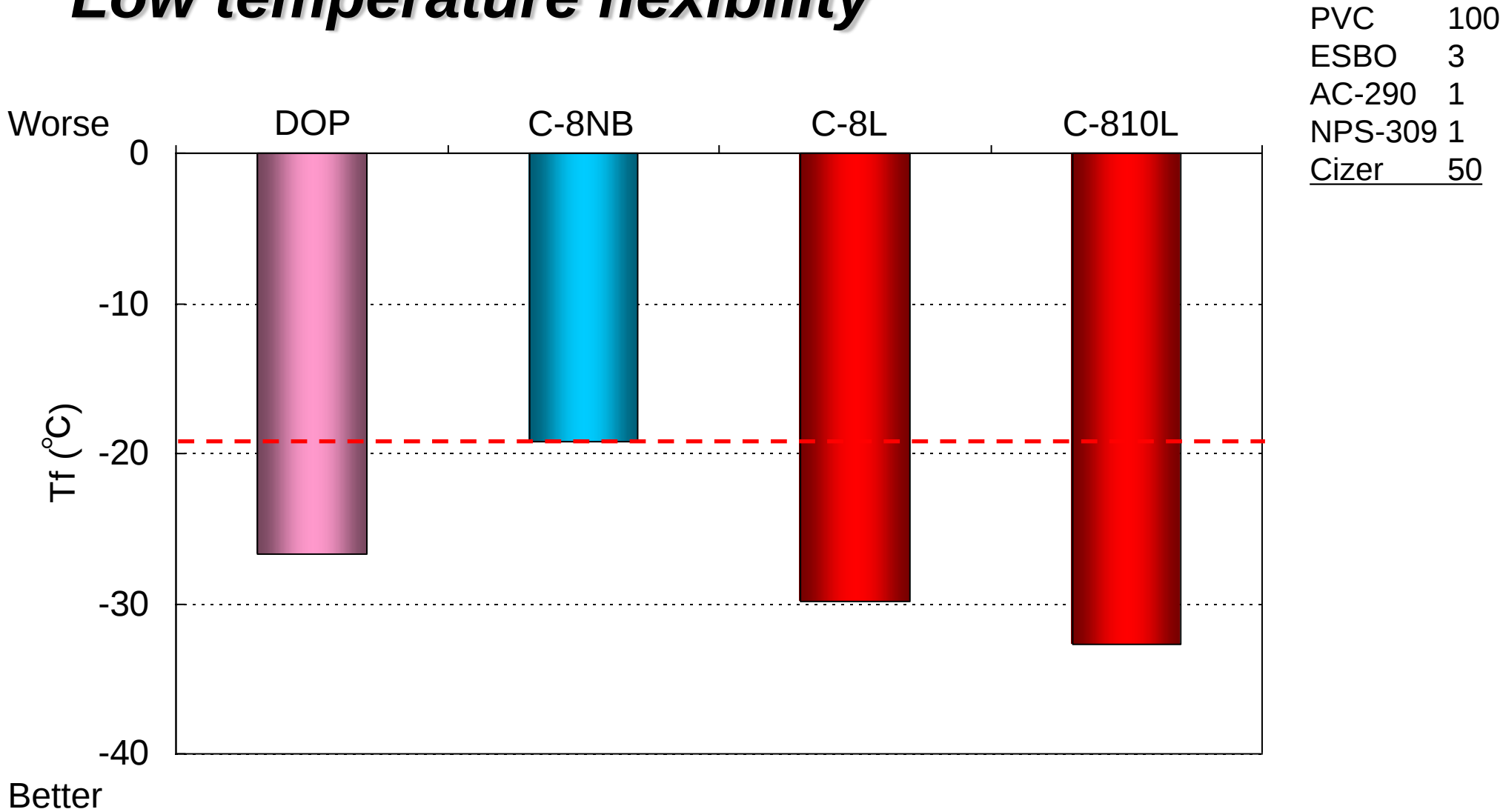


Color stability ~Press test ; 180°C

PVC	100
ESBO	3
AC-290	1
NPS-309	1
Cizer	50



Low temperature flexibility



For Wire and harness

- **Static heat stability (Congo red)**
- **Heat aging**
- **Electrical properties**

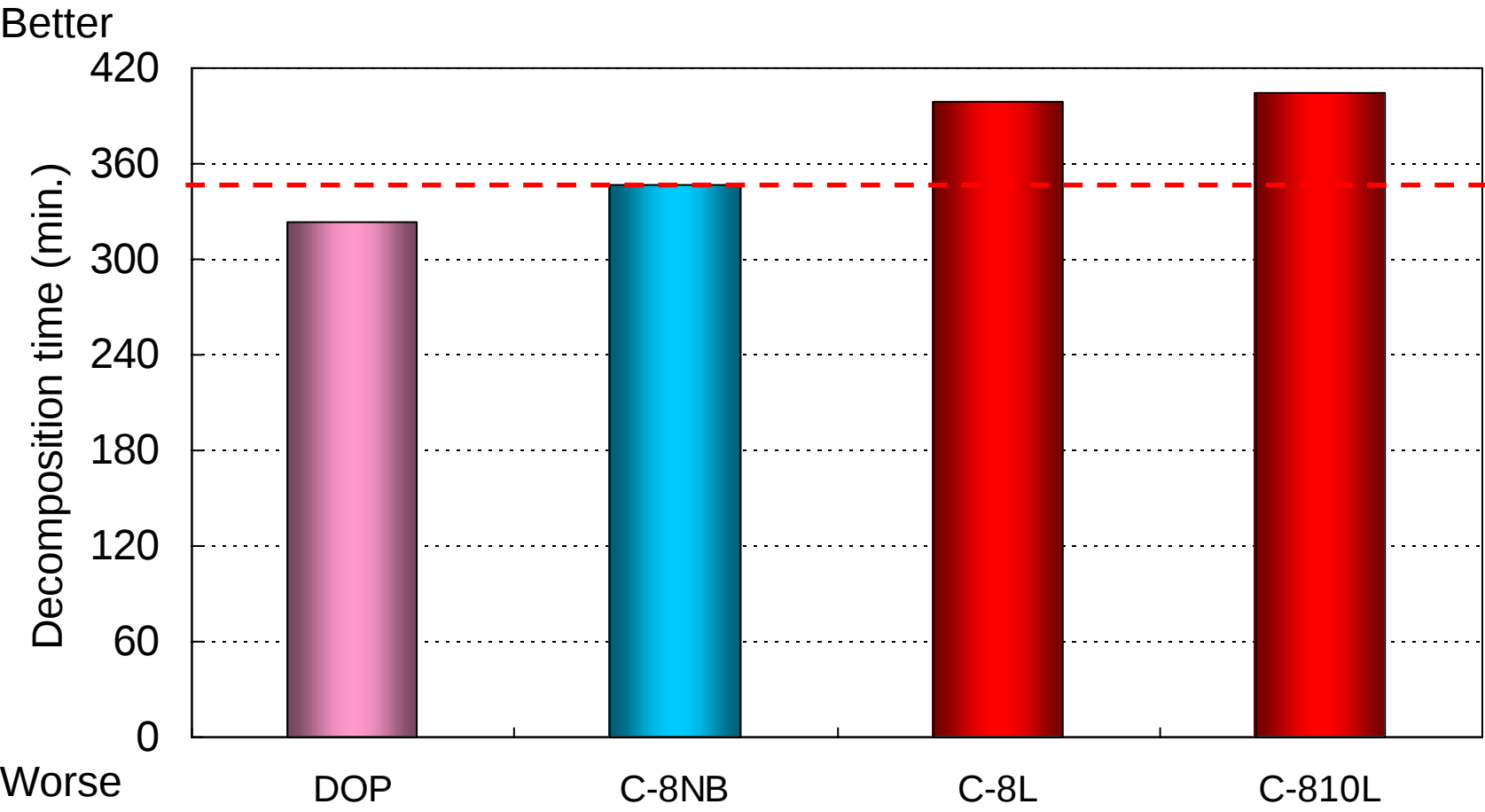
Formulation

PVC(p=1000)	100	
CaCO ₃	10	
Clay	10	
RUP-103	5	(Ca/Zn powder stabilizer for wire and harness)
<u>Cizer</u>	<u>50</u>	



Static heat stability ~Congo red ; 190°C

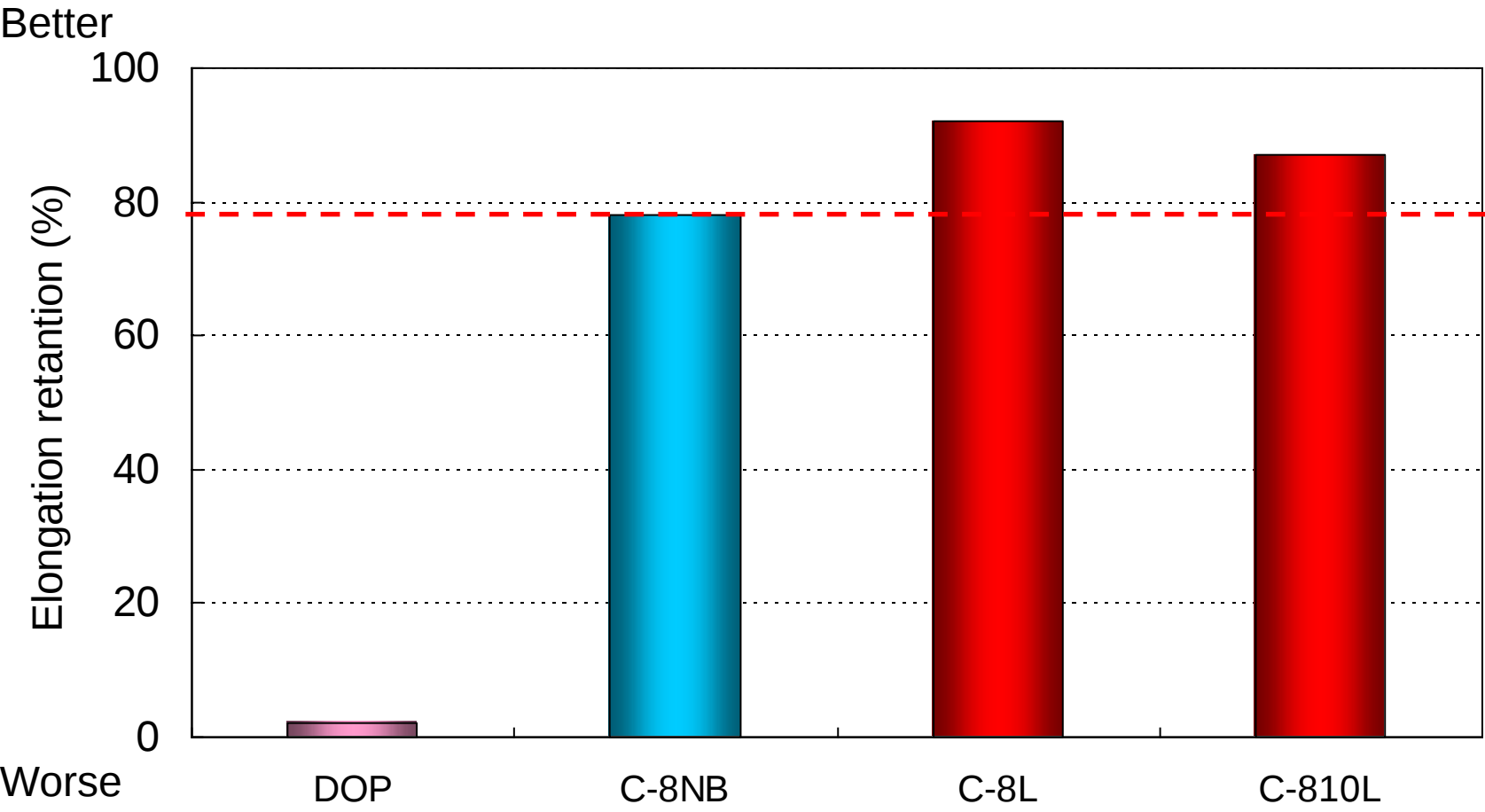
PVC	100
CaCO ₃	10
Clay	10
RUP-103	5
Cizer	50





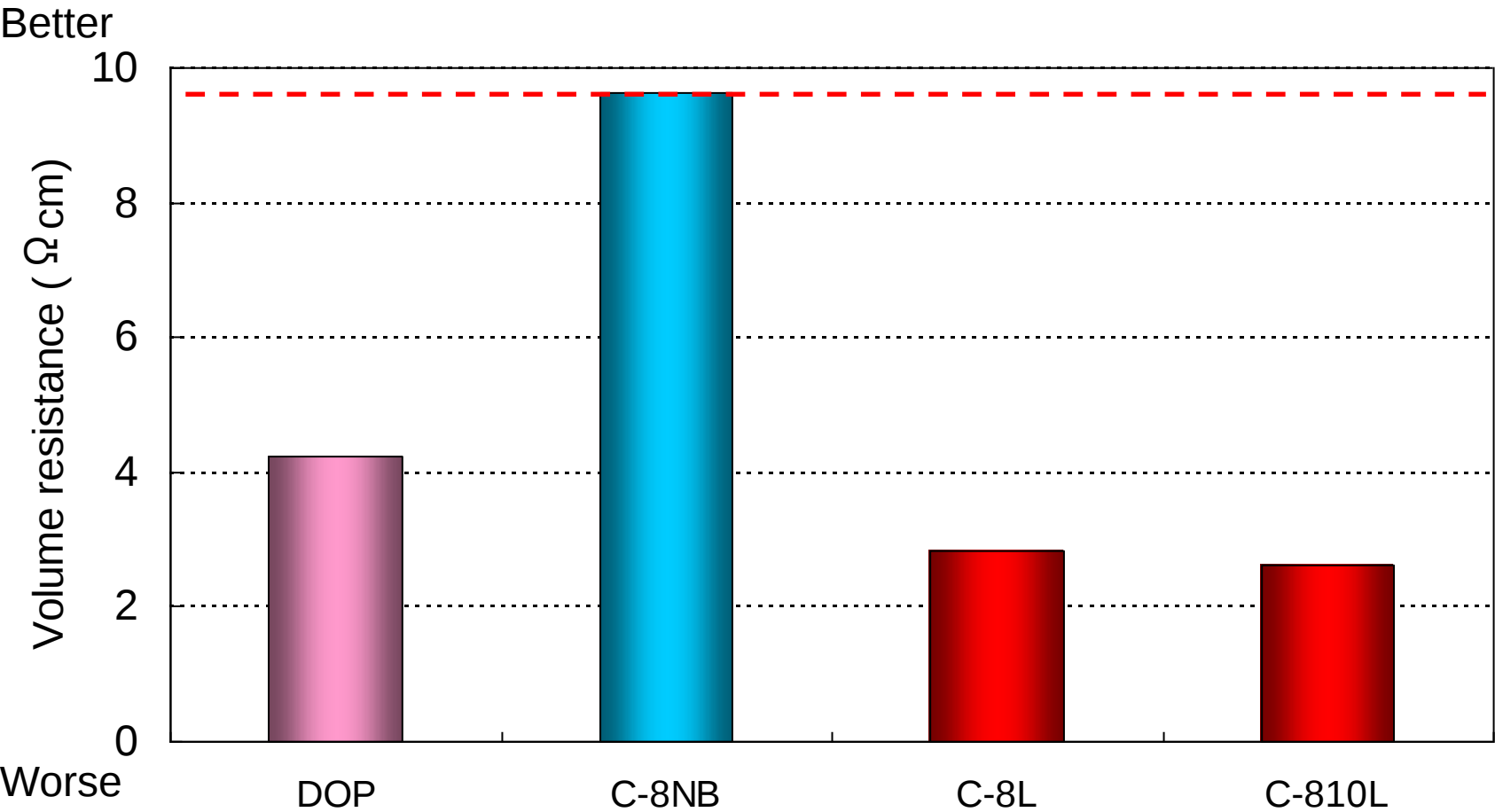
Heat aging ~136°C 336hrs

PVC	100
CaCO ₃	10
Clay	10
RUP-103	5
Cizer	50



Electrical property ~ volume resistance

PVC	100
CaCO ₃	10
Clay	10
RUP-103	5
Cizer	50



For automotive

- *Heat aging properties*
- *Low temperature flexibility*

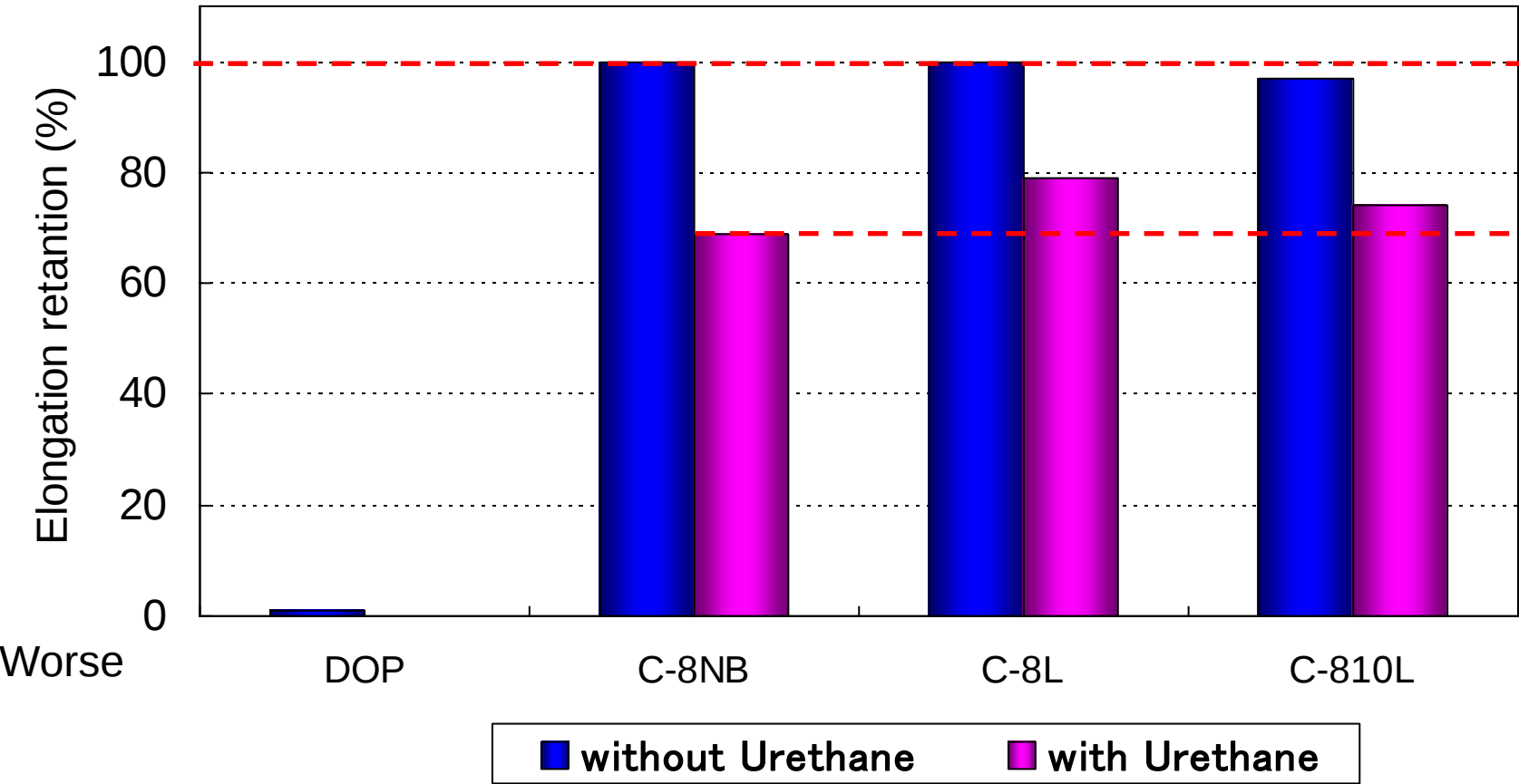
Formulation

PVC-1 (p=1300)	90	
PVC-2 (emulsion)	10	
O-130P	3	(Epoxidized soybean oil)
CPS-507	3	(Ca/Zn stabilizer for powder slush molding)
LS-12	0.2	(Mold release agent)
<u>Plasticizer</u>	<u>60</u>	

Heat aging ~120°C 500hrs

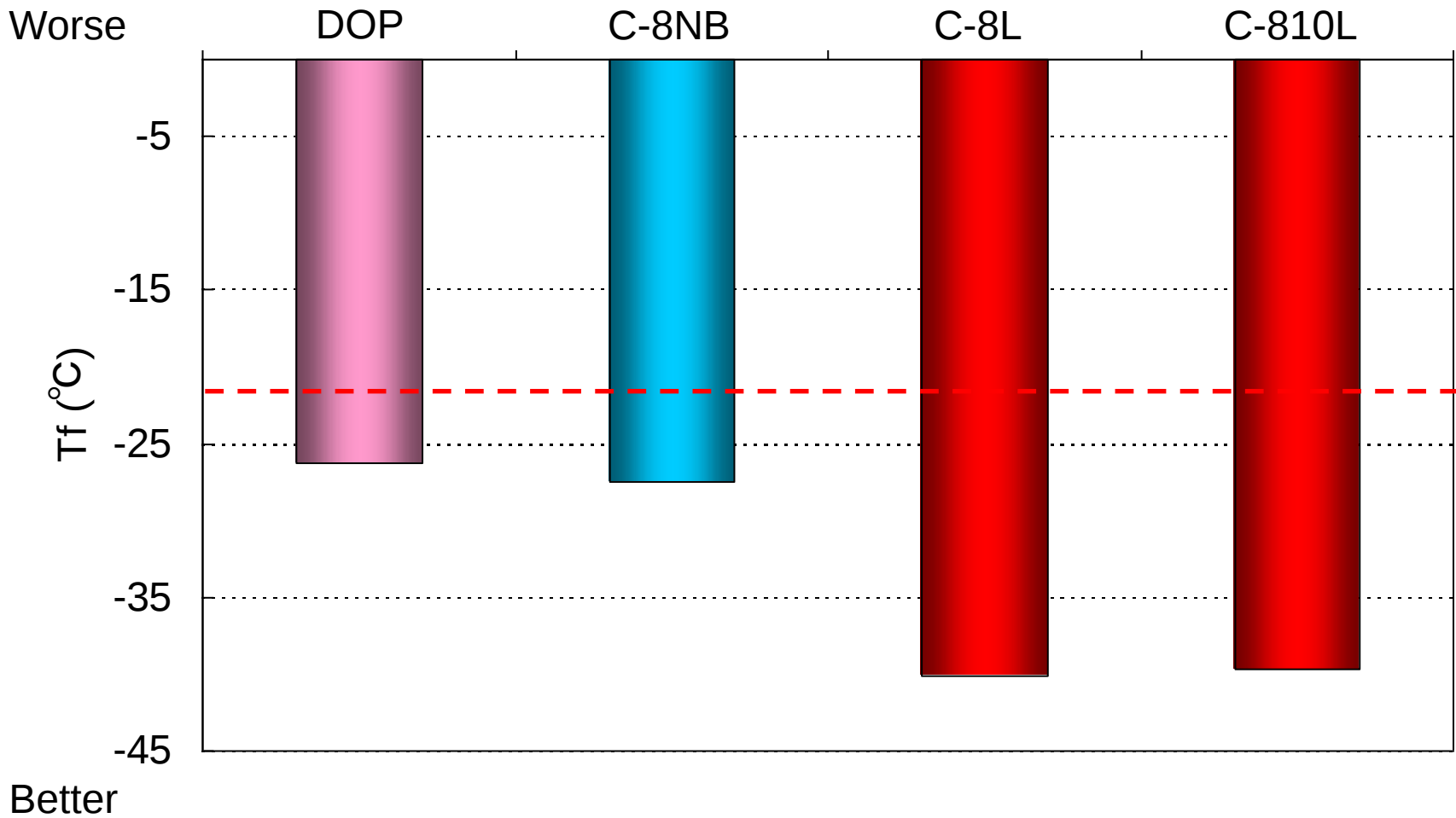
PVC-1	90
PVC-2	10
O-130P	3
CPS-507	3
LS-12	0.2
Cizer	60

Better



Worse

Low temperature flexibility



PVC-1	90
PVC-2	10
O-130P	3
CPS-507	3
LS-12	0.2
Cizer	60