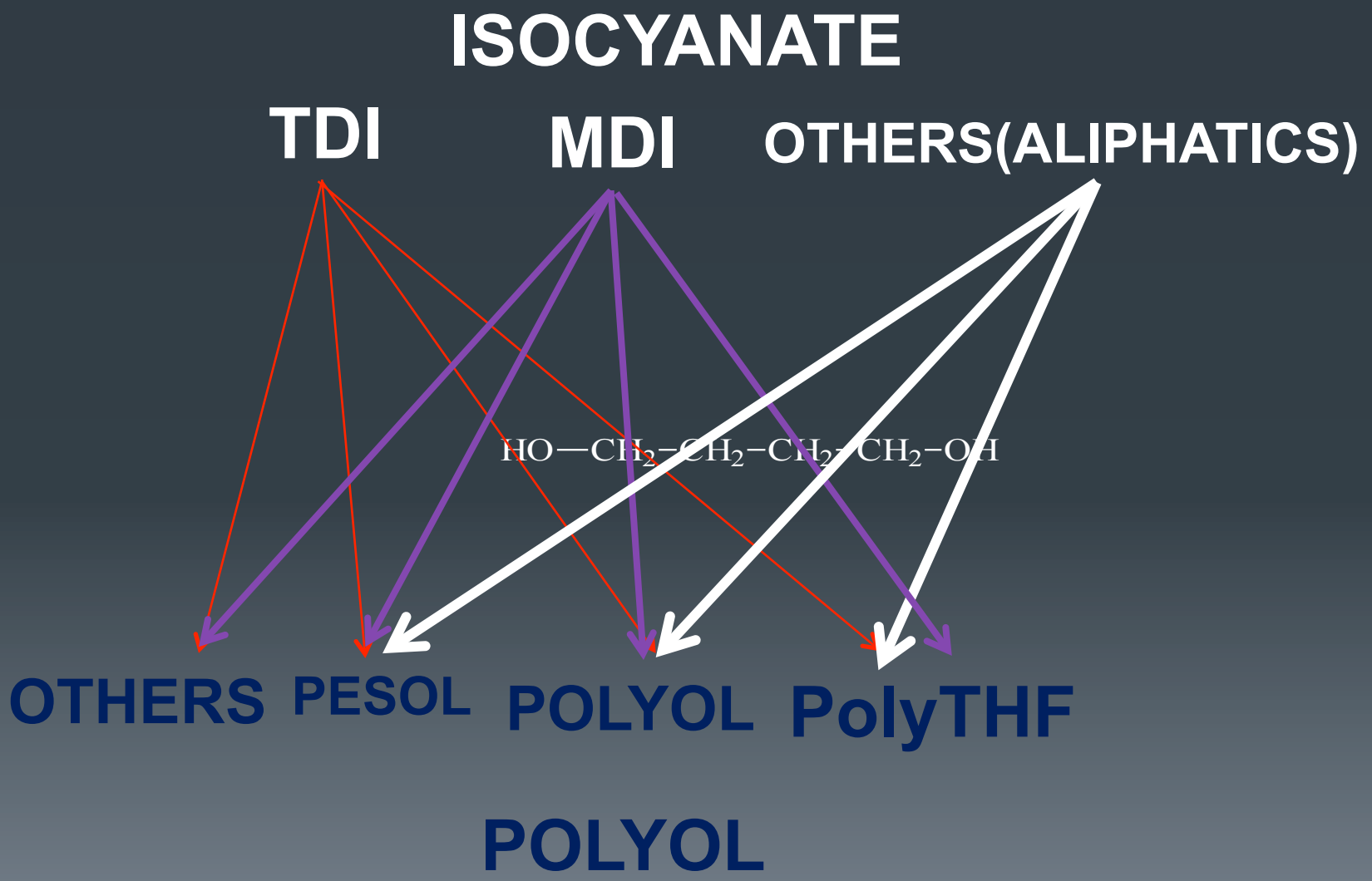
Understanding HOT and Cold Preploymers

ELASTOCAST PREPOLYMERS

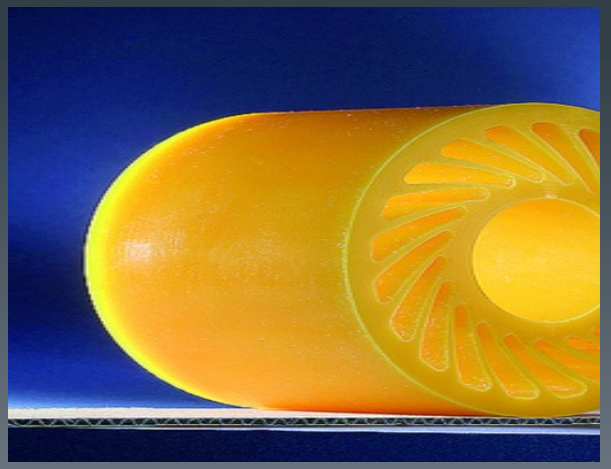


ELASTOCAST HOT CAST PREPOLYMERS- - - UNDERSTANDING NAMING SYTEM

- **MDI PREPOLYMERS**
  - Elastocast TT series
  - Elastocast TIE series
  - Elastocast TIP series
  - Elastocast TIC series
  - Elastocast TQZ series
- **ALIPHATIC series**
  - Elastocast IW series
  - Elastocast II series

TDI PREPOLYMERS

- Elastocast TC series
- Elastocast TD series
- Elastocast TLF series



ELASTOCAST HOT CAST UNDERSTANDING NAMING SYSTEM

- **MDI PREPOLYMERS**
  - Elastocast TT series
  - Elastocast TIE series
  - Elastocast TIP series
  - Elastocast TIC series
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- **ALIPHATIC series**
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- **TDI PREPOLYMERS**
  - Elastocast TC series
  - Elastocast TD series
  - Elastocast TLF series

- TT = PESOL
- TIE = PolyTHF
- TIP = PEOL
- TIC = Caprolactone
- TQZ = above 13%

ELASTOCAST PREPOLYMERS
example MDI vs. TDI with PESOL

MDI Ester with Butanediol

- Hardness - 85A
- Tensile - 7100 psi
- Split tear - 300 pli
- Die C Tear - 525 pli
- Rebound - 34%
- Taber Abrasion - 30
- Comp Set - 24%

TDI Ester with MBOCA

- Hardness - 85A
- Tensile - 6100 psi
- Split tear - 260 pli
- Die C Tear - 460 pli
- Rebound - 30%
- Taber Abrasion - 90
- Comp Set - 28%

ELASTOCAST PREPOLYMERS
example MDI versus TDI with PolyTHF

MDI Ether with Butanediol

- Hardness - 80A
- Tensile - 4200 psi
- Split tear - 80 pli
- Rebound - 65%
- Taber Abrasion - 12
- Comp Set - 17%

TDI Ether with MBOCA

- Hardness - 80A
- Tensile - 3100 psi
- Split tear - 65 pli
- Rebound - 51%
- Taber Abrasion - 59
- Comp Set - 29%

ELASTOCAST PREPOLYMERS
MDI versus TDI SUMMARY
DIFFERENCE: EASE OF PROCESSING

MDI Advantages

- Better Tear Resistance
- Better Abrasion
- Greater Resilience
- Lower Hysteresis
- Safer Handling
- Lower System Costs

TDI Advantages

- Faster Demold Times
- Snap Cure Profiles
- Higher Hardness
- Easier to process
- Less moisture sensitive

ELASTOCAST
COLD CAST SYSTEMS

- **R4 & R5 SERIES**
- **1:1 SYSTEM - R36 & R74 SERIES**
- **FILLED SYSTEMS - R71 SYSTEM**
- **POURABLE RIGIDS - R7 SERIES**

ELASTOCAST
COLD CAST SYSTEMS

- **R4 & R5 SERIES**
  - **Low cost / ready to cast**
- **1:1 SYSTEM - R36 & R74 SERIES**
  - **Fixed ratio easy to mix**
- **FILLED SYSTEMS - R71 SYSTEM**
  - **Castable mold making system**
- **POURABLE RIGIDS - R7 SERIES**
  - **Models and movie sets**

ELASTOCAST
COLD CAST NAMING SYSTEM

ELASTOCAST R4A75-5M BLK

ELASTOCAST
COLD CAST NAMING SYSTEM

ELASTOCAST R4A75-5M BLK

R = RESIN

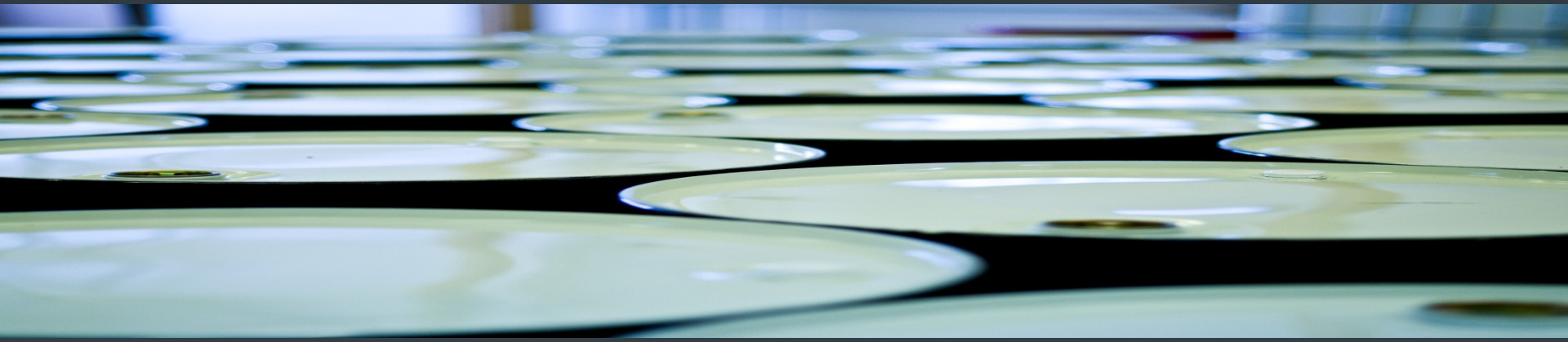
4 = which ISO to use = Elastocast T4

A = durometer A, for harder materials D

5M = 5 minutes from mix to gel point

BLK = black color

• COMPETITION



- CHEMTURA MARKET LEADER
- COIM TRYING TO TAKE CHEMTURA BUSINESS
- ANDERSON DEVELOPMENT
- BAYER STRUGGLING BUT NOT DEAD
  - BAYONE
  - BAULE’
  - BAYER SPECIALTY RIM
- OTHERS: PSC,ERA,HYPERLAST,CHEMLINE,POLYCOAT,ARNCO


BASF
The Chemical Company