DIN EN ISO 16486-1:2021-02 (E)

Plastics piping systems for the supply of gaseous fuels - Unplasticized polyamide (PA-U) piping systems with fusion jointing and mechanical jointing - Part 1: General (ISO 16486-1:2020)

Contents

Page

European foreword ... **3**

Annex (informative) **A-deviation** ... **4**

Foreword ... **5**

Introduction ... **6**

1 Scope ... **7**

2 Normative references ... **7**

3 Terms and definitions ... **8**
3.1 Geometrical characteristics ... 8
3.2 Materials ... 9
3.3 Material characteristics ... 10
3.4 Related to service conditions ... 10

4 Symbols and abbreviated terms ... **11**
4.1 Symbols ... 11
4.2 Abbreviated terms ... 11

5 Material ... **12**
5.1 Material of the components ... 12
5.2 Compound ... 12
5.2.1 Additives ... 12
5.2.2 Colour ... 12
5.2.3 Identification compound ... 12
5.2.4 Rework material ... 12
5.2.5 Characteristics ... 12
5.2.6 Change of compound formulation ... 15
5.3 Fusion compatibility ... 15
5.4 Classification and designation ... 16
5.5 Maximum operating pressure (MOP) ... 16
5.6 Effects of transport of liquid hydrocarbons and hydrogen ... 16

Annex A (normative) **Assessment of degree of pigment or carbon black dispersion in unplasticized polyamide compounds** ... **17**

Annex B (normative) **Chemical resistance** ... **21**

Annex C (normative) **Hoop stress at burst** ... **24**

Annex D (informative) **Continuous liquid hydrocarbon exposure from transported fluid or soil contamination** ... **26**

Annex E (informative) **Permeation resistance against different gases** ... **27**

Bibliography ... **30**