DIN EN 18065:2025-11 (E)

Plastics - Recycled plastics - Classification of recycled plastics based on Data Quality Levels for use and (digital) trading

Contents

Page

European foreword 4

Introduction 6

1 Scope 7

2 Normative references 7

3 Terms and definitions 7

4 Data Quality Levels for recyclates 13
4.1 General 13
4.2 Definition of Data Quality Levels (DQL) 13
4.3 Definition of application-specific Data Quality Levels (DQL-A) 14
4.4 Further explanation for characteristics 14
4.4.1 Type of filler 14
4.4.2 Additives 14
4.4.3 Further details of recycling process 14
4.4.4 Traceability 14
4.4.5 Greenhouse gas emissions measured in CO2 equivalents 15
4.4.6 Contaminant/Non-target materials in the recyclate 15
4.5 Sampling and homogenization 15
4.5.1 Sampling 15
4.5.2 Homogenization 15
4.5.3 Further description of the DQL requirements for sampling and homogenization 15

5 Determination and designation of recycled content 16

6 Labelling 17

7 Digital Product Passport 19
7.1 Requirements for data capture, creation and supersedence 19
7.1.1 Introduction 19
7.1.2 Validation 20
7.1.3 Amendments and re-issuing 21
7.1.4 Supersedence 21
7.2 Requirements for data transfer and traceability 22
7.2.1 System boundaries for Digital Product Passport 22
7.2.2 General principles of data transfer 22
7.2.3 Best Practice in data transfer 22
7.3 Preservation of data 22

Annex A (normative) Requirements for the specific Data Quality Levels 23

Annex B (informative) Recycled content calculation 27

B.1 Mechanical and physical recycling 27
B.2 Chemical recycling 27
B.3 Specific examples of recycled content calculation 27
B.3.1 Example 1: Polymer compound without fillers in the recyclate proportion 27
B.3.2 Example 2: Polymer compound with fillers in the recyclate proportion 27

B.3.3 Example 3: Polymer compound without fillers in the recyclate proportion, and a recycled plastic as carrier for pigments in the masterbatch 28
B.3.4 Example 4: Polymer compound with glass fibres in the recyclate proportion, virgin glass fibres and a recyclate based masterbatch 29
B.3.5 Example 5: Polymer compound with different sources (PIR and PCR) recycled plastic, inorganic virgin fillers and virgin masterbatch 29

Annex C (informative) Sampling 31

Bibliography 34