DIN SPEC 91446:2021-06 (E)

Classification of recycled plastics by Data Quality Levels for use and (digital) trading

Inhalt

Seite

Foreword 4
Introduction 6
1 Scope 7
2 Normative references 7
3 Terms and definitions 7
4 Symbols and abbreviations 11
5 Data Quality Levels (DQL) for recyclates 11
5.1 General 11
5.2 Introduction of the Data Quality Levels (DQL) 12
5.3 Application-specific DQL 12
5.4 Further explanation for optional characteristics 13
5.4.1 Filler content (I) 13
5.4.2 Content of contaminants in the plastics waste feedstock for recycling (O) 13
5.4.3 Additives (O) 13
5.4.4 Further details recycling process (O) 13
5.4.5 Traceability (O) 13
5.4.6 Recyclability (O) 13
5.4.7 CO_2 equivalents (O) 13
5.5 Sampling and sample preparation 14
5.5.1 General 14
5.5.2 Minimum requirements for sampling and sample preparation 14
5.6 Determination of the property tolerances 14
6 Identification of recycled content 14
6.1 Labelling 14
6.2 Determination of recycled content 16
6.3 Technical documentation: Product Information Sheet (PIS) and Product Data Sheets (PDS) 19
Annex A (normative) Requirements for the individual DQLs 21
Annex B (informative) Examples for technical documentation (PIS and PDS) 24
B.1 Example for a Product Information Sheet (DQL: 1) 24
B.2 Example for a Product Data Sheet (DQL: 2) 24
B.3 Example for a Product Data Sheet (DQL: 3) 25
B.4 Example for a Product Data Sheet (DQL: 4), incl. optional characteristics 27
B.5 Example for further information to provide 29
Annex C (informative) Guidance for the characterization of plastics waste as feedstock for plastics recycling 30
C.1 Recommended characteristics of plastic waste feedstock for recycling 30
C.2 Additional characteristics of plastic waste feedstock for recycling 30
C.3 Sampling for the determination of properties of plastic waste as feedstock for recycling 31
Bibliography 33

Figures

Figure 1 — Label **15**

Figure 2 — Designation of recycled content for labelling **16**

Tables

Table 1 — DQLs and numbers of I, P and O (overview) **12**

Table 2 — Label description **16**

Table 3 — Calculation table for example 1 ..... **17**

Table 4 — Calculation table for example 2 ..... **17**

Table 5 — Calculation table for example 3 ..... **18**

Table 6 — Calculation table for example 4 ..... **19**

Table 7 — Material status information (optional) **20**

Table A.1 — Information (I) **21**

Table A.2 — Properties (P) **22**

Table A.3 — Optional characteristics **22**

Table B.1 — Material status **24**

Table B.2 — Material status **25**

Table B.3 — Typical properties **25**

Table B.4 — Material status **26**

Table B.5 — Typical properties **26**

Table B.6 — Material status **27**

Table B.7 — Typical properties **28**

Table C.1 — Waste Characterization Sheet **31**