

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 CO ₂ 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