

QUALITY REPORT



TOMA RECYCLING a.s.
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| | |
|-------------------------|---|
| Granulate name: | TOMAPET |
| Color: | Multicolor – Khaki, black |
| Specification: | Polyethylene terephthalate (PET) |
| Granulate shape: | spherical |
| Application | Bottles for mineral waters and carbonated soft drink, containers and sheet for food, household products |

| Parameter | Quality value |
|-----------------------------------|--------------------------------------|
| Intrinsic viscosity ^{*2} | 0,58 – 0,7 ± 0,02 dl*g ⁻¹ |
| Density (285 °C) ^{*2} | 1,20 ± 0,01 g*cm ⁻³ |
| Color – L ^{*1} | range {38 – 53} |
| Color – a ^{*1} | range {-0,10 – -11,0} |
| Color – b ^{*1} | range {-0,7 – +5,3} |
| Melting point | 250 °C ± 2 °C |
| Moisture | max. 0,3 % |
| Bulk density | 0,82 – 0,9 g*cm ⁻³ |

*1 analysis was performed with a spectrophotometer X³-rite SP62, in CIELAB color tone corresponds with normal daylight

*2 drying temperature 140°C/4 hours analysis was performed with a test polymer system Kayeness, Dynisco LMI 4003 DE, method of measurement was according to ISO 1133 (measurement of melt flow index MFI – measurement of melt flow rate MFR in [g*10min⁻¹] and melt density in [g*cm⁻³])

Date: 1. 1. 2019

Signature:

For example:

Multicolor flakes **sample 1** (6. 9. 2019 – 9. 9. 2019) after regranulation average values:

$$L = 50,37$$

$$a = - 8,26$$

$$b = + 4,54$$

Multicolor flakes **sample 2** (3. 6. 2019) after regranulation average values:

$$L = 45,98$$

$$a = - 3,25$$

$$b = + 1,67$$

Multicolor flakes **sample 3** (14. 5. 2019 – 15. 5. 2019) after regranulation average values:

$$L = 44,53$$

$$a = + 1,19$$

$$b = + 0,52$$

Multicolor flakes **sample 4** (6. 9. 2019 – 9. 9. 2019) after regranulation average values:

$$L = 38,55$$

$$a = - 0,16$$

$$b = + 0,05$$