

TECHNICAL DATA SHEET

aluLDPE regranulate

Origin: LDPE and aluminium layers of used beverage cartons (e.g. Tetra Pak, Elopak, SIG Combibloc).

The input material is a reject from recycling paper from used beverage cartons.

The recycling process includes dry cleaning, sorting of foils from caps/closures and regranulation with melt filtration.

Location: Sokolov, Czech Republic

Volume: approx. 4000-6000 tons / year

Contact: Luděk Lamich, lamich@plastigram.eu
Iren Matuška, matuska@plastigram.eu



| Primary information | Indicative Value | Method of measurement |
|--------------------------|---|--|
| Granule diameter | 4 mm | |
| Filter size in extrusion | 800 µm | |
| Material composition | LDPE, aluminium and traces of LLDPE, HDPE, PP | |
| MFI | 2-3 g/10mins | ISO 1133 (190 °C; 2,16kg) |
| Non-combustible residue | 15-18 % | 600 °C, 30 min |
| Density | 1.07 g/cm ³ | Helium gas pycnometry |
| Smell/odour | 1 | Score (0 – no odour to 3 – strong odour) measured at 190°C |
| Young's modulus | 528 ± 18 MPa | ISO 527-1 |
| Tensile strength | 13.0 ± 0.2 MPa | ISO 527-1 |
| Elongation at break | 28 ± 2 % | ISO 527-1 |
| Impact strength | 83 ± 8 kJ/m ² | ISO 179, un-notched, 23 °C |
| Impact strength | 57 ± 11 kJ/m ² | ISO 179, un-notched, -30 °C |

