TECHNICAL DATA SHEET

aluLDPE regranulate

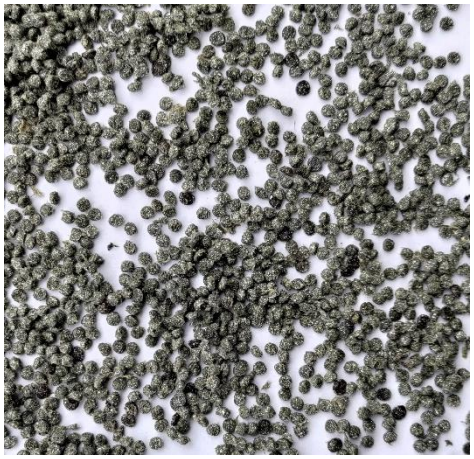
Origin: Post-consumer.

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

Recycled content: 100%

Recycling process: Dry cleaning, sorting of foils from caps/closures and regranulation with melt filtration.

Location: Szczuczyn, Poland
Sokolov, Czech Republic



Primary information	Indicative Value[1]	Method of measurement
Granule diameter	**4** mm	
Filter size in extrusion	**800** µm	
Material composition	**LDPE, aluminium** and traces of LLDPE, HDPE, PP	
MFI	**4.5-6** g/10 mins	Observed in industrial applications[2]
Non-combustible residue	**10-14** %	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 527-2
Tensile strength	**13.0** ± 0.2 MPa	ISO 527-2
Elongation at break	**28** ± 2 %	ISO 527-2
Impact strength	**83** ± 8 kJ/m^2 **57** ± 11 kJ/m^2	ISO 179, un-notched, **23 °C** ISO 179, un-notched, **-30 °C**
Recommended processing temperature	**<190** °C	

[1] Data should not be used for specification work.
[2] According to ISO 1133 (190 °C, 2,16 kg), MFI is 2-3 g/10 because aluminium blocks the die.