

TECHNICAL DATA SHEET

Mixed polyolefins regrind

Origin: Cap/closures 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 caps from foils and wet cleaning of caps.



Location: Sokolov, Czech Republic

Volume: approx. 1500-2000 MT/yr

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Primary information	Indicative Value	Method of measurement
Regrind size	2-20 mm	
Material composition	45% HDPE, 35% LDPE, 15-20% PP, < ca 2% other (Alu, paper fibres, etc.)	
Smell/odour	0	Score (0 – no odour to 3 – strong odour)
Indicative properties of regranulate from the regrind (extruded with 230 µm filter screen)		
Inorganic content	1.1 %	ISO 11358-1
Density	0.95 g/cm³	ISO 1183
MFI	7,5 g/10mins	ISO 1133 (190 °C; 2,16kg)
Tensile modulus	720 MPa	ISO 527-2
Tensile strength	17.8 MPa	ISO 527-2
Elongation at yield	7.9 %	ISO 527-2
Elongation at break	8.2 %	ISO 527-2
Flexular modulus	680 MPa	ISO 178
Impact strength	3.4 kJ/m²	ISO 798-1 Charpy notched
Shore D hardness	57.5	ISO 868 after 15 s