



## Data sheet

### Article: Polyflex-Regranulat (postconsumer quota > 99%)

|  |   |               |                                |
|--|---|---------------|--------------------------------|
| <b>raw material LDPE:</b> contains LLDPE, MDPE, HDPE, PP |   |               |                                |
| <b>source:</b> post-consumer packaging                   |   |               |                                |
| <b>Properties</b>  |   |               |                                |
|  | <b>Unit</b>   | <b>Value</b>  | <b>Method of testing</b>       |
| <b>Characteristical features of the melting process</b>  |   |               |                                |
| Melt-flow-index (190°C / 2,16 kg)                        | [g/10min]   | 1,0 - 1,4     | DIN EN ISO 1133                |
| Melt-flow-index (190°C / 5,0 kg)                         | [g/10min]   | 4,0 - 4,5     | DIN EN ISO 1133                |
| <b>Product features</b>                                  |   |               |                                |
| Kind of delivery   | homogenous granulate packed in big bag's and silo loading |               |                                |
| Colours  | grey or black   |               |                                |
| Registry-number REACH                                    | 05-2115142447-48-0000 / 05-2115142984-40-0000             |               |                                |
| Density  | [g/cm <sup>3</sup> ]                                      | 0,95 - 0,97   | DIN EN ISO 1183-3              |
| Bulk density   | [g/l]   | 550 - 600     | PA 10.008                      |
| Filtration   | [µm]  | 180           | other filtrations are possible |
| Residual moisture  | [%]   | < 0,19        | aquatrac Fa. Bebender          |
| <b>Mechanical Properties</b>                             |   |               |                                |
| Toughness Shore D  |   | 53 +/- 2      | DIN 53505                      |
| Modulus of elasticity                                    | [N/mm <sup>2</sup> ]                                      | 320 - 360     | DIN EN ISO 527-1               |
| Resistance to extension                                  | [N/mm <sup>2</sup> ]                                      | 16 - 20       | DIN EN ISO 527-1               |
| Elongation at tear                                       | [%]   | 400 - 450     | DIN EN ISO 527-1               |
| Impact resistance (charpy)                               | [kJ/m <sup>2</sup> ]                                      | without break | ISO 179/1eU                    |
| Impact resistance (notched)                              |   | 76 +/- 2      |                                |
| <b>Thermal Properties</b>                                |   |               |                                |
| Vicat softening temperature B/50                         | [°C]  | 44 +/- 2      | DIN ISO 306 B/50               |

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The process is certified according to EuCertPlast.

