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## TECHNICAL DATA SHEET

# LOOPLIFE r-HDPE

Polyolefins

R-HDPE05B-BK / GRADE

REPROCESSED HIGH DENSITY POLYETHYLENE, BLACK / PRODUCT NAME

### Description

r-HDPE grades from LOOPLIFE POLYMERS are reprocessed from homogeneous and clean/washed sources of high density polyethylene (HDPE). Product is supplied in the form of pellets.

### PHYSICO-CHEMICAL PROPERTIES

|                           |                           |       |   |    |                           |          |      |      |
|---------------------------|---------------------------|-------|---|----|---------------------------|----------|------|------|
| Chemical name             | High Density Polyethylene |       |   |    |                           |          |      |      |
| Granulometry              | pellets/g                 | 25    | - | 70 | Residual moisture         | ppm      | Max  | 1000 |
| Density                   | g/cm <sup>3</sup>         | 0,951 |   |    | Ash content @450°C        | %        | 0,36 |      |
| Melt index @190°C, 2,16kg | g/10 min                  | 3     | - | 6  | Melt index @230°C, 2,16kg | g/10 min |      | -    |
| Melt index @190°C, 5kg    | g/10 min                  |       | - |    | Melt index @230°C, 5kg    | g/10 min |      | -    |

### MECHANICAL PROPERTIES

|                  |     |            |                          |                   |     |
|------------------|-----|------------|--------------------------|-------------------|-----|
| Stress at yield  | MPa | no measure | Tensile modulus          | MPa               | 951 |
| Stress at break  | MPa | 7,4        | IZOD ISO 180/A (notched) | kJ/m <sup>2</sup> | 8,8 |
| Flex modulus     | MPa | 1148       | Strain at Yield          | %                 | 9,5 |
| Tensile strength | MPa | 23,5       | Strain at Break          | %                 | 166 |

### SENSORY CHARACTERISTICS

|         |                           |
|---------|---------------------------|
| Clarity | Opaque                    |
| Shape   | Lenticular to cylindrical |
| Color   | Black                     |

### PURITY

|                |                                    |
|----------------|------------------------------------|
| Other fraction | Possible presence of PP, up to 10% |
|----------------|------------------------------------|

### REGISTRATION

|            |           |
|------------|-----------|
| CAS nummer | 9002-88-4 |
|------------|-----------|

### PACKAGING

Standard: Big bag (1200kg Net Weight)

### PROCESSING INFORMATION

#### TRANSPORT STORAGE CONDITIONS

Keep in a dry, well ventilated place. Do not store with oxidizing and self-igniting products  
Big bags on pallet

### SHELF-LIFE

|            |           |
|------------|-----------|
| Shelf-life | 36 months |
|------------|-----------|