

# Environmental Profile

This LCA is calculated according to: ISO 14044, ISO 14040 and EN 15804

Ecochain v4.3.1



Product: 3064583 - PE Pipe Cable BK/YL 200 SDR17 L=12 Drill  
Unit: 1 piece  
Manufacturer: Wavin - SE - Eskilstuna - Verified

LCA standard: EN15804+A2 (2019)  
Standard database: Worldwide - Ecoinvent v 3.6 Cut-Off  
Externally verified: Yes



Issue date: 29-11-2024  
End of validity: 29-11-2029  
Verifier: Martijn van Hövell - SGS Search

This LCA was evaluated according to EN15804+A2. It was concluded that the LCA complies with this standard.

The LCA background information and project dossier have been registered in the online Ecochain application in the account Wavin - SE - Eskilstuna - Verified (2020). (☑ = module declared, MND = module not declared).

| A1                                                   | A2 | A3 | A4  | A5  | B1                                                                                                                    | B2  | B3  | B4  | B5  | B6  | B7  | C1                                                                            | C2 | C3 | C4 | D |
|------------------------------------------------------|----|----|-----|-----|-----------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-------------------------------------------------------------------------------|----|----|----|---|
| ☑                                                    | ☑  | ☑  | MND | MND | MND                                                                                                                   | MND | MND | MND | MND | MND | MND | MND                                                                           | ☑  | ☑  | ☑  | ☑ |
| Product stage                                        |    |    |     |     | Use stage                                                                                                             |     |     |     |     |     |     | End-of-Life stage                                                             |    |    |    |   |
| A1 Raw material supply A2 Transport A3 Manufacturing |    |    |     |     | B1 Use B2 Maintenance B3 Repair B4 Replacement B5 Refurbishment<br>B6 Operational energy use B7 Operational water use |     |     |     |     |     |     | C1 De-construction demolition C2 Transport C3 Waste processing<br>C4 Disposal |    |    |    |   |
| Construction process stage                           |    |    |     |     | Benefits and loads beyond the system boundaries                                                                       |     |     |     |     |     |     |                                                                               |    |    |    |   |
| A4 Transport gate to site                            |    |    |     |     | D Reuse- Recovery- Recycling- potential                                                                               |     |     |     |     |     |     |                                                                               |    |    |    |   |
| A5 Assembly / Construction installation process      |    |    |     |     |                                                                                                                       |     |     |     |     |     |     |                                                                               |    |    |    |   |

# Results

| Environmental impact | Unit         | A1       | A2       | A3       | A1-A3    | C2        | C3       | C4        | D         | Total    |       |
|----------------------|--------------|----------|----------|----------|----------|-----------|----------|-----------|-----------|----------|-------|
| GWP-total            | kg CO2 eq    | 1.730E+2 | 1.450E+1 | 5.285E+0 | 1.928E+2 | 2.249E+0  | 7.312E+1 | 1.243E+0  | -1.142E+2 | 1.551E+2 |       |
| GWP-f                | kg CO2 eq    | 1.726E+2 | 1.449E+1 | 4.365E+0 | 1.915E+2 | 2.248E+0  | 7.308E+1 | 1.243E+0  | -1.140E+2 | 1.540E+2 |       |
| GWP-b                | kg CO2 eq    | 3.121E-1 | 4.137E-3 | 4.131E-1 | 7.294E-1 | 8.612E-4  | 2.132E-2 | 7.467E-5  | -1.955E-1 | 5.561E-1 |       |
| GWP-luluc            | kg CO2 eq    | 5.486E-2 | 8.555E-3 | 5.075E-1 | 5.709E-1 | 7.955E-4  | 1.263E-2 | 1.812E-5  | -4.291E-2 | 5.414E-1 |       |
| ODP                  | kg CFC11 eq  | 4.627E-6 | 2.997E-6 | 4.944E-7 | 8.118E-6 | 5.180E-7  | 1.643E-6 | 2.658E-8  | -5.723E-6 | 4.583E-6 |       |
| AP                   | mol H+ eq    | 6.337E-1 | 3.512E-1 | 3.697E-2 | 1.022E+0 | 1.280E-2  | 6.906E-2 | 6.354E-4  | -3.365E-1 | 7.679E-1 |       |
| EP-fw                | kg P eq      | 2.995E-3 | 8.627E-5 | 8.055E-5 | 3.162E-3 | 1.850E-5  | 3.643E-4 | 8.311E-7  | -2.267E-3 | 1.279E-3 |       |
| EP-m                 | kg N eq      | 1.076E-1 | 8.906E-2 | 1.096E-2 | 2.076E-1 | 4.581E-3  | 2.009E-2 | 4.464E-4  | -6.109E-2 | 1.716E-1 |       |
| EP-T                 | mol N eq     | 1.220E+0 | 9.894E-1 | 1.202E-1 | 2.329E+0 | 5.049E-2  | 2.210E-1 | 2.577E-3  | -6.750E-1 | 1.928E+0 |       |
| POCP                 | kg NMVOC eq  | 5.771E-1 | 2.590E-1 | 3.339E-2 | 8.694E-1 | 1.443E-2  | 6.989E-2 | 1.009E-3  | -3.786E-1 | 5.762E-1 |       |
| ADP-mm               | kg Sb eq     | 2.383E-3 | 1.881E-4 | 1.313E-4 | 2.702E-3 | 5.815E-5  | 2.733E-4 | 6.397E-7  | -7.464E-4 | 2.288E-3 |       |
| ADP-f                | MJ           | 6.019E+3 | 1.955E+2 | 4.337E+1 | 6.258E+3 | 3.450E+1  | 2.190E+2 | 1.942E+0  | -3.424E+3 | 3.089E+3 |       |
| WDP                  | m3 depriv.   | 1.378E+2 | 4.288E-1 | 2.795E+1 | 1.662E+2 | 1.059E-1  | 4.301E+0 | 9.796E-3  | -9.630E+1 | 7.428E+1 |       |
| PM                   | disease inc. | 5.273E-6 | 7.105E-7 | 6.238E-7 | 6.607E-6 | 2.029E-7  | 1.136E-6 | 1.334E-8  | -2.420E-6 | 5.540E-6 |       |
| IR                   | kBq U-235 eq | 4.088E+0 | 8.320E-1 | 1.290E-1 | 5.049E+0 | 1.508E-1  | 6.599E-1 | 9.034E-3  | -3.283E+0 | 2.585E+0 |       |
| ETP-fw               | CTUe         | 1.042E+3 | 1.427E+2 | 1.209E+2 | 1.306E+3 | 2.802E+1  | 2.485E+2 | 1.711E+0  | -5.499E+2 | 1.034E+3 |       |
| HTP-c                | CTUh         | 4.984E-8 | 7.624E-9 | 4.776E-9 | 6.224E-8 | 9.970E-10 | 3.000E-8 | 4.783E-11 | -2.201E-8 | 7.127E-8 |       |
| HTP-nc               | CTUh         | 1.129E-6 | 1.318E-7 | 1.302E-7 | 1.391E-6 | 3.340E-8  | 3.741E-7 | 1.092E-9  | -5.931E-7 | 1.206E-6 |       |
| SQP                  | Pt           | 2.388E+2 | 7.605E+1 | 5.702E+0 | 3.205E+2 | 2.952E+1  | 1.750E+2 | 4.979E+0  | -1.352E+2 | 3.948E+2 |       |
| Resource use         |              | Unit     | A1       | A2       | A3       | A1-A3     | C2       | C3        | C4        | D        | Total |
| PERE                 | MJ           | 1.030E+2 | 1.709E+0 | 2.735E+2 | 3.782E+2 | 4.950E-1  | 1.081E+1 | 7.634E-2  | -7.430E+1 | 3.153E+2 |       |
| PERM                 | MJ           | 0        | 0        | 0        | 0        | 0         | 0        | 0         | 0         | 0        |       |
| PERT                 | MJ           | 1.030E+2 | 1.709E+0 | 2.735E+2 | 3.782E+2 | 4.950E-1  | 1.081E+1 | 7.634E-2  | -7.430E+1 | 3.153E+2 |       |
| PENRE                | MJ           | 6.459E+3 | 2.076E+2 | 4.606E+1 | 6.712E+3 | 3.663E+1  | 2.334E+2 | 2.060E+0  | -3.689E+3 | 3.295E+3 |       |
| PENRM                | MJ           | 0        | 0        | 0        | 0        | 0         | 0        | 0         | 0         | 0        |       |
| PENRT                | MJ           | 6.459E+3 | 2.076E+2 | 4.606E+1 | 6.712E+3 | 3.663E+1  | 2.334E+2 | 2.060E+0  | -3.689E+3 | 3.295E+3 |       |
| PET                  | MJ           | 6.562E+3 | 2.093E+2 | 3.196E+2 | 7.091E+3 | 3.713E+1  | 2.442E+2 | 2.137E+0  | -3.763E+3 | 3.611E+3 |       |
| SM                   | kg           | 0        | 0        | 0        | 0        | 0         | 0        | 0         | 0         | 0        |       |
| RSF                  | MJ           | 0        | 0        | 0        | 0        | 0         | 0        | 0         | 0         | 0        |       |
| NRSF                 | MJ           | 0        | 0        | 0        | 0        | 0         | 0        | 0         | 0         | 0        |       |
| FW                   | m3           | 2.100E+0 | 1.490E-2 | 6.639E-1 | 2.779E+0 | 3.905E-3  | 1.265E-1 | 2.396E-3  | -1.373E+0 | 1.539E+0 |       |

| Output flows and waste categories | Unit | A1       | A2       | A3       | A1-A3    | C2       | C3       | C4       | D         | Total    |
|-----------------------------------|------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|
| HWD                               | kg   | 8.874E-4 | 2.883E-4 | 6.604E-5 | 1.242E-3 | 8.824E-5 | 3.571E-4 | 2.339E-6 | -9.649E-4 | 7.246E-4 |
| NHWD                              | kg   | 6.766E+0 | 4.594E+0 | 2.024E-1 | 1.156E+1 | 2.139E+0 | 1.076E+1 | 8.548E+0 | -3.318E+0 | 2.970E+1 |
| RWD                               | kg   | 3.657E-3 | 1.334E-3 | 1.835E-4 | 5.174E-3 | 2.346E-4 | 8.359E-4 | 1.269E-5 | -2.812E-3 | 3.446E-3 |
| CRU                               | kg   | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0         | 0        |
| MFR                               | kg   | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0         | 0        |
| MER                               | kg   | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0         | 0        |
| EET                               | MJ   | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0         | 0        |
| EEE                               | MJ   | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0         | 0        |
| Others                            | Unit | A1       | A2       | A3       | A1-A3    | C2       | C3       | C4       | D         | Total    |
| BIO-C-Product                     | kg C | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0         | 0        |
| BIO-C-Packaging                   | kg C | 5.373E-7 | 0        | 0        | 5.373E-7 | 0        | 0        | 0        | 0         | 5.373E-7 |



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