

## PROVISIONAL TECHNICAL DATA SHEET



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## GTPLENE ECO MD 4 NC 001

|                              |                                                                                                  |
|------------------------------|--------------------------------------------------------------------------------------------------|
| <b>Description</b>           | Pelletized Medium Density Polyethylene made from recycled materials and washed compacted flakes. |
| <b>Color</b>                 | Natural color                                                                                    |
| <b>Applications</b>          | Rotomolding Tank, Furniture, Industrial applications                                             |
| <b>Processing Technology</b> | Rotomolding                                                                                      |

| Physical Properties           | Values | Unit              | ISO  | ASTM D |
|-------------------------------|--------|-------------------|------|--------|
| Density                       | 0.925  | g/cm <sup>3</sup> | 1183 | 792    |
| Filler Content                | -      | %                 | 3451 | 5630   |
| Melt Flow Index 190°C/2.16 kg | 4.0    | g/10min           | 1133 | 1238   |
| Melting Point (DSC)           | -      | °C                | 3146 | 3418   |

| Mechanical Properties                | Values | Unit      | ISO     | ASTM D |
|--------------------------------------|--------|-----------|---------|--------|
| Tensile strength at yield            | -      | MPa       | 527-1   | 638    |
| Flexural Strength at yield           | -      | MPa       | 178     | 790    |
| Flexural Modulus                     | 350    | MPa       | 178     | 790    |
| IZOD Impact strength, notched (23°C) | 8.8    | lb-ft/in2 | -       | 256    |
| IZOD Impact strength, notched (23°C) | 46     | KJ/m2     | 180 1eA | -      |

| Thermal Properties       | Values | Unit | ISO  | ASTM D |
|--------------------------|--------|------|------|--------|
| HDT method B (0.450 MPa) | -      | °C   | 75-1 | 648    |

| Flammability           | Values |  |      |      |
|------------------------|--------|--|------|------|
| Flame rating at 3.2 mm | HB     |  | UL94 | UL94 |

| Processing Conditions         | Values    |   |   |   |
|-------------------------------|-----------|---|---|---|
| Drying no need only suggested | 2h/80°C   | - | - | - |
| 1st Zone                      | 230°C     | - | - | - |
| 2nd Zone                      | 235°C     | - | - | - |
| 3rd Zone                      | 240°C     | - | - | - |
| Mold                          | 30 - 60°C | - | - | - |

**Notes:** The values are to be considered typical and do not constitute a specification.

**Test Temperature:** 23°C, unless otherwise stated

#### Storage, transportation and handling:

Storage and handling of the resin should consider protecting it from direct sunlight, temperatures above 40°C, and ambient humidity. Exposure to any of these conditions will reduce the resin's storage time.

Transport and handling equipment must be designed and equipped with the necessary measures to prevent the creation and accumulation of fine particles and dust originating from or contained in the resin. Under certain circumstances, these particles can pose a hazardous risk.

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