

## We believe in better.

Heartland Polymers' portfolio of quality polypropylene is produced at North America's first integrated PDH/PP facility, located in Alberta, Canada. With sustainability built into every aspect of our operations, our approach to production will produce lower greenhouse gas emissions compared to our industry peers. We are ready to deliver high quality and sustainably produced polypropylene to help advance the polymer industry as customers and consumers seek new and better products to help shape their future.

## Quality resins produced sustainably, delivered reliably

All of our polypropylene features the following attributes:

- Excellent balance of processability and physical properties
- A tailored balance of stiffness to impact properties
- Exceptional heat and chemicals resistance
- Excellent price to performance ratio
- Lower density translating into weight savings
- Recyclable
- Phthalate free
- Free of any Animal Derived Materials (ADM)
- Meets the FDA requirements for direct and indirect food contact

## Discover the Heartland difference

We offer five different grades of homopolymer polypropylene for spunbound and filament fibres. With our fibre polypropylene grades, you can expect:

- High melt strength
- Advanced anti-gas fading properties
- Superior barrier properties
- Excellent tensile and flexural properties
- Enhanced draw down
- High speed processability
- Low water carryover

### CONNECT WITH HEARTLAND POLYMERS

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 Heartland Polymers



| FABRICATION FAMILY  |                    |             | FIBRE HOMOPOLYMERS  |   |   |                    |   |
|---|--------------------|-------------|---|---|---|--------------------|---|
| GRADE NAME  |                    |             | H5103   | H5104<br>H5104A   | H5012G  | H5025G             | H5235G  |
| PRIMARY APPLICATION   |                    |             | Raffia  | Raffia  | Staple  | Multi-Filament     | Spunbond  |
| PROPERTIES  | UNITS              | TEST METHOD | NOMINAL VALUES  |   |   |                    |   |
| Melt Flow Rate<br>(2.16 kg at 230°C)                          | g/10 min           | ASTM D1238  | 3.5   | 4.0   | 12.0  | 25.0               | 35.0  |
| Tensile Strength<br>@ Yield<br>50 mm/min<br>(2 in/min)        | MPa (psi)          | ASTM D638   | 36<br>(5,250)   | 36<br>(5,200)   | 37<br>(5,350)   | 37<br>(5,350)      | 33<br>(4,850)                                       |
| Tensile Elongation<br>@ Yield                                 | %                  | ASTM D638   | 10  | 9   | 8   | 8                  | 10  |
| Flexural Modulus<br>1% Secant<br>1.3 mm /min<br>(0.05 in/min) | MPa (psi)          | ASTM D790   | 1,600<br>(233,000)  | 1,600<br>(230,000)  | 1,600<br>(232,000)  | 1,600<br>(232,000) | 1,250<br>(182,000)                                  |
| Notched Izod<br>Impact Strength<br>@ 23°C                     | J/m<br>(ft-lb/in.) | ASTM D256A  | 29<br>(0.5)   | 28<br>(0.5)   | 30<br>(0.6)   | 25<br>(0.5)        | 21<br>(0.4)   |
| Heat Deflection<br>Temperature (HDT)<br>@ 0.45 MPa/ (66 psi)  | °C<br>(°F)         | ASTM D648   | 102<br>(214)  | 103<br>(217)  | 104<br>(219)  | 104<br>(219)       | 96<br>(204)   |
| MAIN FEATURE  |                    |             | Multi-purpose   | Multi-purpose   | Anti-gas fading   | Anti-gas fading    | Narrow MWD/<br>Anti-gas fading                      |
| APPLICATION DETAILS   |                    |             | 25 kg bags, jumbo bags, carpet backing, rope, twine, straws and tubing, general purpose additives | 25 kg bags, carpet backing, straws, tubing, general purpose additives | Yarns and non-wovens for furniture, automotive, carpet backing, wall coverings, suitable for short spin process | Carpet face yarn   | Spunbond grade for diapers and hygiene applications |

Suffix Legend: A = Anti-static; B = Anti-block; E = Nucleation/mold release; G = Anti-gas fading; H = Heat stabilized; N = Nucleated/clarified; S = Slip/mold release; U = UV stabilizer; Z = Others