

## Polypropylene made 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 65 per cent lower greenhouse gas emissions compared to the global average among industry peers – according to an independent third-party analysis commissioned by parent company, Inter Pipeline. 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 polypropylene for BOPP, cast film and TWQ. With our film polypropylene grades, you can expect:

- Enhanced draw down
- High speed processability
- High clarity

### CONNECT WITH HEARTLAND POLYMERS

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 @HeartlandPP

 Heartland Polymers



FABRICATION FAMILY			FILM HOMOPOLYMERS			FILM RANDOM CO-POLYMERS	
GRADE NAME			H3003	H3209	H3010SB	R32075B	R3208
PRIMARY APPLICATION			BOPP	Cast film	TWQ	BOPP	Cast film
PROPERTIES	UNITS	TEST METHOD	NOMINAL VALUES				
Melt Flow Rate (2.16 kg at 230°C)	g/10 min	ASTM D1238	3.0	8.8	10.0	7.0	8.0
Tensile Strength @ Yield 50 mm/min (2 in/min)	MPa (psi)	ASTM D638	33 (4,800)	36 (5,200)	36 (5,200)	19 (2,750)	25 (3,650)
Tensile Elongation @ Yield	%	ASTM D638	9	8	8	11	9
Flexural Modulus 1% Secant 1.3 mm/min (0.05 in/min)	MPa (psi)	ASTM D790	1450 (210,000)	1540 (223,000)	1600 (232,000)	550 (80,000)	760 (110,000)
Notched Izod Impact Strength @ 23°C	J/m (ft-lb/in.)	ASTM D256A	50 (0.9)	35 (0.7)	30 (0.6)	90 (1.7)	50 (0.9)
Heat Deflection Temperature (HDT) @ 0.45 MPa/ [66 psi]	°C (°F)	ASTM D648	104 (219)	104 (219)	104 (219)	—	81 (178)
MAIN FEATURE			High speed	High clarity	Slip and antiblock with improved optics and openability	Heat sealable skin layer with slip and antiblock	High clarity
APPLICATION DETAILS			High speed BOPP metallizable film	Stationary, sheet protectors, photo albums, DVD case covers, packaging	Clear packaging: garments, dress shirts, electronic parts, portion filled shampoos	Multilayer sealable films for snack food, bakery, and tobacco packaging	Mono and multilayer cast films or multilayer blown films for packaging, retort pouches, shrink and stretch wrap

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