heartland polymers

EXTRUSION

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.

CONNECT WITH HEARTLAND POLYMERS

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HeartlandPolymers.com

Heartland Polymers

Quality resins produced sustainably, delivered reliably

All of our polypropylene feature 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 thermoforming and extrusion blow molding. With our extrusion polypropylene grades, you can expect:

- Excellent clarity
- Improved color retention
- High stiffness for down gauging and improved mechanical performance
- Higher MFR reactor grade capability with better taste and odor
- Decreased injection molding cycle time
- Broad MWD for increased melt strength
- Low Ethylene Randoms (LER) grades for excellent haze/stiffness balance
- Cleaner resins

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EXTRUSION

FABRICATION FAMILY			EXTRUSION HOMOPOLYMERS		EXTRUSION RANDOM CO-POLYMERS		
GRADE NAME			H1002NA	H1003N	R1302NS (Mini-random)	R1302N (Mini-random)	R1002
PRIMARY APPLICATION			Thermo-forming/ Extrusion blow molding	Thermo-forming/ Extrusion blow molding	Thermo-forming/ Extrusion blow molding	Thermo-forming/ Extrusion blow molding	Thermo-forming/ Extrusion blow molding
PROPERTIES	UNITS	TEST METHOD	NOMINAL VALUES				
Melt Flow Rate (2.16 kg at 230°C)	g/10 min	ASTM D1238	1.8	3.0	2.1	2.2	1.9
Tensile Strength @ Yield 50 mm/min (2 in/min)	MPa (psi)	ASTM D638	39 (5,700)	39 (5,700)	37 (5,400)	38 (5,500)	26 (3,800)
Tensile Elongation @ Yield	%	ASTM D638	6	6	8	6	9
Flexural Modulus 1% Secant 1.3 mm /min (0.05 in/min)	MPa (psi)	ASTM D790	1,800 (265,000)	1,900 (275,000)	1,580 (230,000)	1,650 (242,000)	930 (135,000)
Notched Izod Impact Strength @ 23°C	J/m (ft-lb/in.)	ASTM D256A	22 (0.5)	22 (0.4)	77 (1.4)	27 (1.5)	60 (1.1)
Heat Deflection Temperature (HDT) @ 0.45 MPa/ (66 psi)	°C (°F)	ASTM D648	123 (253)	124 (256)	84 (183)	118 (246)	84 (183)
MAIN FEATURE			Clarified and anti-stat	High clarity	High slip content	Good clarity	Suitable for multilayer structures
APPLICATION DETAILS			Drinking cups, portion cups, bakery and produce trays	Clear drinking cups, portion cups, bakery and produce trays	EBM large containers, thick gauge thermo-forming, large part thermo-forming	Clear bottles for food packaging of syrup, condiments, sauces and fruits, clarified thermo-forming	Non-clarified bottles for institutional food packaging thermo-forming

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