

Barrier Resin Portfolio

Homopolymer HDPE

Explore Our Broad Range of Barrier Resins

Single-Site Catalyst with Multi-Reactor Process

NOVA Chemicals offers a versatile portfolio of high-quality, consistent barrier resins designed to meet diverse industry needs. Our advanced polyethylene solutions deliver exceptional moisture barrier performance, enabling extended product protection and supporting the transition to more sustainable, recyclable packaging formats. Whether you require blown film, cast film, or extrusion lamination, NOVA Chemicals provides reliable options tailored to your application, helping you achieve superior protection and operational efficiency across global markets.



Proven Performance

Market Leading

Next Generation

Market Leading

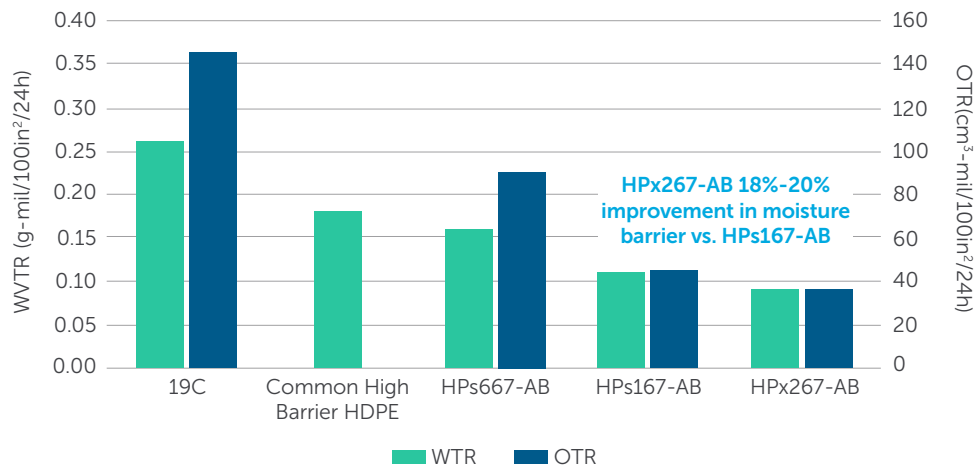
	SCLAIR® 19C Resin	SURPASS® HPs167-AB Resin	SURPASS® HPx267-AB Resin	SURPASS® HPs667-AB Resin
Process	Blown Film	Blown Film	Blown Film	Cast Film
Production Location	SCRS (Ontario)	AST1 (Alberta) and AST2 (Ontario)	AST1 (Alberta) and AST2 (Ontario)	AST1 (Alberta) and AST2 (Ontario)
Comonomer	Homopolymer HDPE	Homopolymer HDPE	Homopolymer HDPE	Homopolymer HDPE
Use Cases	HDPE grade for multilayer blown film	• HDPE grade for multilayer blown film • Sub-skin layer for enhanced barrier performance • Laminate to MDO web or other laminated films		• Traditional cast applications • Co-extruded coating with LDPE • Extrusion coating for paper or poly laminates
Benefits	• Good barrier properties • High stiffness for structure integrity	• Downgauging while maintaining shelf-life requirements • Consistent barrier performance • Less material = increased sustainability	• New standard in moisture-barrier performance • Enhanced operational flexibility • Advancement in monomaterial film design	• Excellent moisture barrier in cast extrusion • Allows for design flexibility in moisture sensitive applications
Markets	• Food Packaging • Pet Food • Medical			
Applications	• Dry Foods (cereal, cake mix) • Snacks (chips, crackers) • Meats (chicken) • Dairy (milk) • Cheese (shredded) • Pet food (dog food) • Medical IV bags			
Package Types	• SUP • Lid stock, lidding films • Release liners • Molded barrier parts • VFFS • HFFS • Lidding			• SUP • Lid stock, lidding films • Release liners • Molded barrier parts • VFFS • HFFS • Lidding • Paper coatings

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	SCLAIR® 19C Resin	SURPASS® HPs167-AB Resin	SURPASS® HPx267-AB Resin	SURPASS® HPs667-AB Resin
Melt Index	0.95	1.20	2.00	6.00
Density (g/cm³): 3 layer	0.958	0.967	0.967	0.968
MVTR (g-mil/100in²/day)	0.26	0.11	0.09	0.16
OTR (cm³-mil/100in²/day)	145	45	36	90
Yield Strength MD (MPa)	25	31	30	25
1% Secant Modulus, MD (Mpa)	840	900	1050	1050
Melt Strength: cN	1.7	2.6	1.6	n/a
Recyclability	Opportunity for recyclability where recycling infrastructure exists	Enables monomaterial packaging for recyclability where recycling infrastructure is available		n/a

Moisture Barrier Performance

HPx267-AB setting a new standard in moisture barrier performance



BONFIRE® Film Development Platform



A proprietary suite of tools for designing and improving complex multilayer films

Today's flexible packaging must meet a variety of demanding performance, sustainability, aesthetic and cost requirements. Designing multilayer films that meet these specifications can be a challenge, often requiring an extensive amount

of line time for trials. The BONFIRE film development platform, a robust set of online tools, helps designers find the most promising resins and structures to meet specific requirements, reducing the number of physical trials needed.

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We're reshaping plastics to be our customers' first and best choice.



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