

RESINS & FILMS FOR PACKAGING



Product Guide

AdvanSix offers a variety of polyamide (PA) resins and BOPA films for food, healthcare and other consumer products packaging — all designed to solve important customer needs. This product guide summarizes each AdvanSix packaging offering, including barrier properties, technology and end-use applications.

Tables 1 and 2 show the AdvanSix packaging resin portfolio of PA 6 homopolymers, PA 6/66 copolymer grades and

PA barrier resins. Table 3 shows our packaging portfolio of Capran® and OxyShield® BOPA films, which deliver a range of non-PVdC and non-foil barrier technologies produced with AdvanSix resins.

For details, please contact your AdvanSix sales representative or visit [AdvanSix.com/Nylon Solutions](http://AdvanSix.com/Nylon_Solutions).

Table 1: PA6 & PA 6/66 Resins

Grade	RV*	Lubricated/Nucleated	OTR**	WVTR***	Technology
Aegis® H55C2ZP	2.7	None	†	†	Extrusion coating
Aegis® H85NP	3.2	None	2.6	64	Extrusion coating/BOPA
Aegis® H85QP	3.2	Lubricated	2.6	64	Extrusion coating/BOPA
Aegis® H100NP	3.4	None	2.6	64	Cast/BOPA
Aegis® H100QP	3.4	Lubricated	2.6	64	Cast/BOPA
Aegis® H100MP	3.4	Lubricated, Nucleated	2.6	64	Cast/BOPA
Aegis® H120ZP	3.6	None	2.6	64	Cast/Blown film
Aegis® H120MP	3.6	Lubricated, Nucleated	2.6	64	Cast/Blown film
Aegis® H135ZP	3.8	None	2.6	64	Blown film
Aegis® H135QP	3.8	Lubricated	2.6	64	Blown film
Aegis® H135MP	3.8	Lubricated, Nucleated	2.6	64	Blown film
Aegis® H155C1ZP	4.0	None	3.1	57.4	Cast/Blown film
Aegis® H155C1WP	4.0	Lubricated	3.1	57.4	Cast/Blown film

*Relative Value

**Oxygen Transmission Rate @ 23°C (73°F), 0% RH, cc mil/100 in²/day.atm

***Water Vapor Transmission Rate @ 38°C (100°F), 100% RH, gm.mil/100 in²/day

†Laboratory testing underway

Table 2: PA Barrier Resins

Grade	Initiation Time (hrs.)*	Active OTR**	Scavenging Capacity (cc/g)	Application Examples
Aegis® BarrierPro ₂ ®	<45	<0.002	>40	<ul style="list-style-type: none"> • Hotfill bottles • Juice • RTD tea (ready-to-drink) • Wine • Condiments
Aegis® OXCE	<170	<0.003	>70	<ul style="list-style-type: none"> • OXCE has added CO₂ barrier for carbonated beverages*** • Beer • Flavored alcoholic beverages

*23°C (73°F), 100% RH

**Oxygen Transmission Rate @ 23°C (73°F), 80% RH, cc mil/100 in²/atm.day

***CO₂ Transmission Rate = 1.6 cc mil/100 in²/day.atm @ 23°C (73°F), 80% RH (oriented film)

Table 3: Capran® and OxyShield® BOPA Films

Product	Grade	Thickness (microns)	Category/Corona Treatment	OTR*	General Purpose**	MAP/Vacuum	Stand Up Pouches	BIB/Large Formats	Foil Replacement	Balloons	Book Covers	Retort	Healthcare	Cold Forming
Standard, Transparent Film	Capran® 1000 (IST) Capran® 1200 (IST) Capran® 1500 (IST) Capran® 2500 (IST)	10, 12, 15, 25	General Inside corona treated	4.8-1.8	●	●	●	●		●	●		●	
	Capran® 1000RT (IST) Capran® 1200RT (IST) Capran® 1500RT (IST) Capran® 2500RT (IST)	10, 12, 15, 25	Retort Inside corona treated	4.8-1.8			●				●	●	●	
	Capran® 1000 Capran® 1200 Capran® 1500 Capran® 2500	10, 12, 15, 25	General Outside corona treated	4.8-1.8	●	●	●	●		●	●		●	
	Capran® 1000RT Capran® 1200RT Capran® 1500RT Capran® 2500RT	10, 12, 15, 25	Retort Outside corona treated	4.8-1.8			●				●	●	●	
	Capran® 1000 (2ST) Capran® 1200 (2ST) Capran® 1500 (2ST) Capran® 2500 (2ST)	10, 12, 15, 25	General 2-side corona treated	4.8-1.8	●	●	●	●		●	●		●	
	Capran® 1000RT (2ST) Capran® 1200RT (2ST) Capran® 1500RT (2ST) Capran® 2500RT (2ST)	10, 12, 15, 25	Retort 2-side corona treated	4.8-1.8			●				●	●	●	
	Capran® CF 2500 (2ST)	25	Cold forming 2-side corona treated	1.8									●	●
Barrier Film (Co-ex EVOH, Transparent)	OxyShield® OMB 1200	12	Oxygen barrier Outside corona treated	0.3		●	●	●	●	●			●	
	OxyShield® OEB 1500	15	High oxygen barrier Outside corona treated	0.08		●	●	●	●	●			●	
	OxyShield® OEB 1500 (2ST)	15	High oxygen barrier 2-side corona treated	0.08		●	●	●	●	●			●	
Metalized Film	Capran® MT 1000 Capran® MT 1200 Capran® MT 1500	10, 12, 15	Outside metallized High oxygen barrier	0.03		●	●	●	●	●			●	
	Capran® MT 1000 (ISM) Capran® MT 1200 (ISM) Capran® MT 1500 (ISM)	10, 12, 15	Inside metallized High oxygen barrier	0.03		●	●	●	●	●			●	
	Capran® MTU 1000 Capran® MTU 1200 Capran® MTU 1500	10, 12, 15	Metallized Very high oxygen barrier	0.01		●	●	●	●	●			●	

*Oxygen Transmission Rate @ 22°C (71.6°F), 0% RH, cc/100 in²/day

**Note: Refers to flexible packaging applications other than those specified in the table, such as extrusion lamination, dry/adhesive lamination, roto gravure/flexo printing, mild post-cure/sterilization and more.

Note: This guide is intended to provide general information only. As such, AdvanSix assumes no liability for the interpretation or use of information presented herein. For recommendations specific to your applications, please contact the appropriate supplier(s).

Contact AdvanSix

To learn more about the benefits of Aegis® resins, Capran® films and OxyShield® films, visit

[AdvanSix.com/NylonSolutions](https://www.advansix.com/NylonSolutions) or call:

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