



Sustainable Solutions Line Card

MATERIAL
SOLUTIONS
TO BUILD
**A BETTER
LIFE**



Helping Our Customers Achieve Sustainability Goals

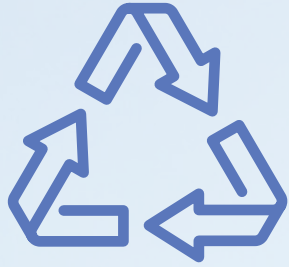
By collaborating with suppliers focused on sustainability, we help our customers achieve their sustainability goals, such as lowering carbon emissions, reducing waste, combatting the plastic waste problem, increasing the use of renewable resources, and more!



Our Suppliers



Our Sustainable Solutions Fall Into 3 Categories



Recycled Content

Post-Consumer Recycled (PCR)
(After Consumer Use)

Ocean Bound Plastic (OBP)
(At Risk of Ending Up in an Ocean)

Post-Industrial Recycled (PIR)
(Production Surplus)



Bio-Polymers

Bio-Derived and Bio-Circular Feedstocks
(Beginning of Product Life Cycle)

Biodegradable and Compostable Grades
(End of Product Life Cycle)



Efficient Consumption

Improves manufacturing efficiencies,
enhances recyclability, provides
lightweighting, and more!



Recycled Content

Post-Consumer Recycled (PCR) Content

- PCR - Plastic waste generated after a material is used by a consumer
- Sustainable Impact
 - Lower greenhouse gas emissions
 - Reduced waste in landfills
 - Reduced depletion of non-renewable resources
 - Contributes to a circular economy

Material	Supplier	Trade Name	Recycle Type	Sustainable Benefit
ABS	INEOS Styrolution	Terluran® ECO	PCR	50% and 70%
ABS	Veolia	Veolia REEF	PCR	100%
ABS	West Michigan	Enviroloc	PCR	30-50%
HDPE	Birch Plastics	Plasteon	PCR	98-100%
HDPE	Dow	Revoloop	PCR	25%
HDPE	LyondellBasell	CirculenRecover	PCR	25-90%
HDPE	LyondellBasell	CirculenRevive	PCR/PIR	"Up to 100% attributed using mass balance (ISCC PLUS required)"
HDPE	Veolia	Veolia REEF	PCR	100%
HIPS	Veolia	Veolia REEF	PCR	100%
LDPE	Dow	Revoloop	PCR	70%
LDPE	LyondellBasell	CirculenRecover	PCR/PIR	"Up to 100% attributed using mass balance (ISCC PLUS required)"
LDPE	Veolia	Veolia REEF	PCR	100%
LLDPE	Dow	Revoloop	PCR	70%
LLDPE	LyondellBasell	CirculenRecover	PCR	30%
LDPE	LyondellBasell	CirculenRecover	PCR/PIR	"Up to 100% attributed using mass balance (ISCC PLUS required)"
PA6 (Long Fiber Composites)	Avient	Complet™ REC	PCR	50%
PBT/PET	Celanese	Celanex® ECO-R	PCR	25%
PC	Covestro	Makrolon® R CQ	PCR/PIR**	25% - 50%
PC	Veolia	Veolia REEF	PCR	100%
PC+ABS	Covestro	Bayblend® R CQ	PCR/PIR**	25% - 50%
PC+PET	Covestro	Makroblend® R CQ	PCR/PIR**	30% - 75%
PET	Celanese	Rynite® ECO-R	PCR	30% attributed using mass balance (ISCC PLUS required)
PET (Filled)	Celanese	Rynite® ECO-R	PCR	≤100%
PP	Birch Plastics	Plasteon	PCR	50%
PP	Invista	Invista™	PCR	15-50%
PP	Invista	Invista™	PCR	"Up to 50% attributed using mass balance (ISCC PLUS required)"
PP	LyondellBasell	CirculenRecover	PCR	25-30%
PP	LyondellBasell	CirculenRevive	PCR/PIR	"Up to 100% attributed using mass balance (ISCC PLUS required)"
PP	PureCycle	PureFive™	PCR	≤100%
PP	Veolia	Veolia REEF	PCR	100%
PP (Filled)	RheTech	RheComp®	PCR	≤100% PP resin
TPE	Avient	reSound™ R	PCR	25%
TPV	Celanese	Santoprene® ECO-R	PCR	15-45%

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** Depends on application and requirements



Recycled Content

Ocean Bound Plastic (OBP) Content

- OBP - Plastic waste at risk of ending up in the ocean
- Sustainable Impact
 - Lower greenhouse gas emissions
 - Reduced waste in coastlines
 - Reduced depletion of non-renewable resources
 - Contributes to a circular economy

Material	Supplier	Trade Name	Recycle Type	Recycled Content
HDPE	Birch Plastics	Plasteon	OBP	30%
TPE	Avient	reSound™ R	OBP	25%
PA6	Celanese	Zytel® PA Ocean ECO-R	OBP	30%

Post-Industrial Recycled (PIR) Content

- PIR - Plastic production surplus or waste generated from the original manufacturing process
- Sustainable Impact
 - Lower greenhouse gas emissions
 - Reduced waste in landfills
 - Reduced depletion of non-renewable resources
 - Contributes to a circular economy

Material	Supplier	Trade Name	Recycle Type	Recycled Content
Flexible PVC	Westlake Dimex	Westlake Dimex	PIR/PCR	66% PIR/7% PCR
PA6 (Long Fiber Composites)	Avient	Complet™ REC	PIR	25-50%
PA6, PA66, PA612	Niche Polymer	PoliPIR	PIR	≥50%
PA6, PA66, PA610, PA612	Nylene	Nylene® E Series	PIR	≥25%
PA6, PA66	Celanese	Zytel® PA ECO-R	PIR	30%
PA6, PA66 (Filled)	Celanese	Minlon® PA ECO-R	PIR	30%
PA6, PA66 (FR)	Celanese	Frianyl® PA ECO-R	PIR	30%
PA66	Avient	Nymax ND	PIR	20-100%
PA66	Celanese	Zytel® PA ECO-R	PIR	30% attributed using mass balance (ISCC PLUS required)
PBT	Niche Polymer	PoliPIR	PIR	≥50%
PC	Covestro	Makrolon® R CQ	PCR/PIR**	25% - 50%
PC+ABS	Covestro	Bayblend® *R CQ	PCR/PIR**	25% - 50%
PC+ABS	Niche Polymer	PoliPIR	PIR	≥75%
PC+ABS	West Michigan Compounding	EnviroPCABS	PIR	<92%
PC+PET	Covestro	Makroblend® R CQ	PCR/PIR**	30% - 75%
PP	Birch Plastics	Plasteon	PIR	99-100%
PP	West Michigan Compounding	Enviropro	PIR	<68-99%
PP (Filled)	Geon Performance Solutions	GEON® RESILIENCE® R	PIR	≤35%
PP (Filled)	Niche Polymer	PoliPIR	PIR	≥50%
PP (Filled)	RheTech	RheVision®	PIR	10-50% Bio-circular fillers ≤100% PP resin
PP (Filled)	RheTech	RheComp®	PIR	≤100% PP resin



Recycled Content

Post-Industrial Recycled (PIR) Content

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 - Contributes to a circular economy

Material	Supplier	Trade Name	Recycle Type	Recycled Content
PP (Filled)	RheTech	RheVision®	PIR	10-50% Bio-circular fillers ≤100% PP resin
PP (Filled)	RheTech	RheComp®	PIR	≤100% PP resin
PP (Filled)	Celanese	Tecnoprene® ECO-R	PIR	30%
TPE	Avient	reSound™ R	PIR	25-40%
TPO	West Michigan Compounding	Enviropro	PIR	<80%
TPO	Westlake Dimex	Westlake Dimex	PIR	88%
TPU (Long Fiber Composites)	Avient	Compleat™ REC	PIR	15-45%
TPV	West Michigan Compounding	EnviroTPV	PIR	<99%
TPV	Westlake Dimex	Westlake Dimex	PIR	84%

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** Depends upon application and requirements





Bio-Polymers

Bio-Derived/Bio-Circular: Beginning of Product Life Cycle

- Bio-Derived (or bio-based) - Materials formulated at least in part from renewable sources, such as canola, corn, straw, wood, sugarcane, and wheat
- Bio-Circular - Materials formulated at least in part from food and agricultural waste, including used cooking oil and food scraps
- Sustainable Impact
 - Lower greenhouse gas emissions
 - Reduced waste in landfills (bio-circular only)
 - Reduced depletion of non-renewable resources
 - Contributes to a circular economy (bio-circular only)

Material	Supplier	Trade Name	Sustainable Benefit
Cellulosics	Eastman	Tenite™	Bio-derived content
HDPE	LyondellBasell	CirculenRenew	100% bio-circular attributed content using mass balance (ISCC PLUS required)
LCP	Celanese	Vectra® ECO-B, Zenite® ECO-B	≤60% bio-circular attributed content using mass balance (ISCC PLUS required)
LDPE	LyondellBasell	CirculenRenew	100% bio-circular attributed content using mass balance (ISCC PLUS required)
LLDPE	LyondellBasell	CirculenRenew	100% bio-circular attributed content using mass balance (ISCC PLUS required)
PA12	Evonik	Vestamid® eCO	Produced with green energy and bio-circular feedstock
PA610, PA1010	Celanese	Zytel® RS	≤100% bio-derived content
PA610, PA1010	Evonik	Vestamid® Terra	62-100% bio-derived content
PAPACM12	Evonik	Trogamid® eCO	Produced with green energy and bio-circular feedstock
PBT	Celanese	Celanex® ECO-B, Crastin® ECO-B	≤40% bio-circular attributed content using mass balance (ISCC PLUS required)
PC	Covestro	Makrolon® RE CQ	≤89% bio-circular attributed content using mass balance (ISCC PLUS required)
PC+ABS	Covestro	Bayblend® RE CQ	40% - 80% bio-circular attributed content using mass balance (ISCC PLUS required)
PC+PET	Covestro	Makroblend® RE CQ	30% - 50% bio-circular attributed content using mass balance (ISCC PLUS required)
POM	Celanese	Celcon® ECO-B, Hostaform® ECO-B	≤97% bio-circular attributed content using mass balance (ISCC PLUS required)
POM	Delrin	Delrin® RA	95-100% bio-derived attributed content using mass balance (ISCC PLUS required)
PP (LFRT)	Celanese	Celstran® ECO-B	30% bio-circular attributed content using mass balance (ISCC PLUS required)
TPC	Celanese	Hytrel® ECO-B	Up to 73% bio-circular attributed content using mass balance (ISCC PLUS required)
TPC	Celanese	Hytrel® RS	Up to 73% bio-derived
TPE	Avient	reSound™ OM	35-50% bio-derived content
TPO	Geon Performance Solutions	GEON® RESILIENCE® BIO	5-17% bio-derived content
UHMW-PE	Celanese	GUR® ECO-B	>99% bio-circular attributed content using mass balance (ISCC PLUS required)

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Biodegradable/Compostable: End of Product Life Cycle

- Biodegradable - Materials that decompose in a natural environment
- Compostable - Materials that can be broken down in an industrial composting facility or a home compost environment

Sustainable Impact

- Lower greenhouse gas emissions (if bio-derived feedstocks)
- Reduced waste in landfills
- Reduced depletion of non-renewable resources (if bio-derived feedstocks)

Material	Supplier	Trade Name	Sustainable Benefit
PBAT, PBS	AFC Ecoplastics	AFC Ecoplastics	Compostable
PHA	CJ Biomaterials	PHACT™	100% bio-derived content, biodegradable, compostable



Efficient Consumption

Enable More Sustainable Practices

- Part Production - Reduce cycle times, lower temperatures (energy usage), increased recycling rates, reduced VOC emissions
- Finished Part Use - Lightweighting, eliminate substances of concern
- Sustainable Impact
 - Lower greenhouse gas emissions during production or part use
 - Reduced waste in landfills (for improved recycling solutions)
 - Reduced depletion of non-renewable resources (for improved recycling solutions)
 - Eliminate substances of concern

Material	Supplier	Trade Name	Sustainable Benefit
Compatibilizers	Dow	RETAIN™	Enable recycling of film with EVOH or PA as barrier layer
Flexible PVC	Geon Performance Solutions	GEON® Non-Phthalate	Eliminate phthalates in risk-adverse applications
Long Fiber Composites	Avient	Complet™	Lighter weight alternative to steel (~80% lighter) and aluminum (~50% lighter)
PA12	Evonik	Vestamid® eCO Vestamid® RFP	Produced with green energy and biocircular feedstock Produced with green energy
PAPACM12	Evonik	Trogamid® eCO	Produced with green energy and biocircular feedstock
Siloxane Additive Masterbatches	DuPont	MULTIBASE™	Increased throughput and reduced energy demand. Act as processing aids enabling fluoro free formulations.
Specialty Formulations	Avient	Gravi-Tech™	Eliminate lead in risk-adverse applications
TPE	Avient	reSound™ R	≤0 CO2 ekg/kg





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•
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•
Smarter

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