



GEON® RESILIENCE® R: Combining Sustainability and High Performance

Achieving sustainability in composite materials for high-performance applications is a key challenge across industries. From homopolymer, co-polymer to impact modified, GEON® RESILIENCE® R polypropylene products contain up to 35 percent recycled content without compromising performance.

GEON® RESILIENCE® R gives customers new options to support their sustainability initiatives by offering a lower carbon footprint compared to virgin raw materials. The use of mechanically recycled content also promotes a circular economy by diverting waste from landfills and decreasing the consumption of virgin materials.

RESILIENCE® R products:

- Align with industry and corporate Environmental, Social and Governance (ESG) goals.
- Can be used in automotive, appliance, sporting goods, houseware and a variety of end-use applications.
- Effectively compete in performance against non-recycled content.
- Come from secure sources of recycled streams and undergo stringent quality checks for consistent lot-to-lot properties and supply.
- Offer ease of processing in most standard thermoplastic equipment

Our Commitment to Sustainability

Across our portfolio, we are focused on designing products that deliver better performance and value while minimizing impact on the environment. We are also committed to building thriving communities where we operate.



Shape thriving communities

GEON seeks to shape communities that thrive, both within our own business and employee population, and in the towns and cities in which we operate.



Optimize operational excellence

GEON is committed to continually improving the efficiency and sustainability of our operations while continuing to grow our business and operate safely.



Collaborate and innovate across our value chain

By working across the industry value chain and better understanding the impacts of our products and services through their life cycles, GEON will help close key resource loops, advance the innovation of sustainable products with our customers and accelerate our top-line growth.

RESILIENCE® R MAKES SUSTAINABILITY SENSE

GEON® RESILIENCE® R product line offers a wide range of reinforcement types (e.g., mineral fillers, glass fibers and talc) and loadings to provide desired properties such as improved strength and stiffness while maintaining the low density and chemical resistance known for polypropylene. As a result, materials require lower levels of reinforcement to reduce material density, enabling lightweighting while still meeting performance requirements.

We stand behind our commitments – both in terms of product quality and the amount of recycled content in our RESILIENCE® R line – to ensure both high performance and a strong sustainability profile.

RESILIENCE® R products:

- Provide the processability and other typical benefits of polypropylene compounds.
- Can be tailored to meet the property requirements.
- Use primarily post-industrial recycled (PIR) streams.
- Are offered in black and grey color only.
- Are UL94 HB approved.

TALC-FILLED PP		
PRODUCT	DESCRIPTION	RECYCLED CONTENT
PP5120R B2	20% talc filled, homopolymer PP, black, high melt flow	25%
PP5120R B24	20% talc filled, homopolymer PP, black	25%
PP5133R B1	33% talc filled homopolymer PP, black	30%
F5134T2-4R	20% talc filled, homopolymer PP, black	30%
F5134T4-1R	40% talc filled, homopolymer PP, black	30%
GLASS-FILLED PP		
PRODUCT	DESCRIPTION	RECYCLED CONTENT
PP5410R B216512 UV	10% glass filled homopolymer PP, black, UV	35%
PP5420R B1	20% glass filled homopolymer PP, black	25%
PP5430R B5	30% glass filled homopolymer PP, black	30%
PP5440R B1	40% glass filled homopolymer PP, black	25%
PP6420R B4	20% glass filled copolymer PP, black	10%
MICA-FILLED PP		
PRODUCT	DESCRIPTION	RECYCLED CONTENT
PP5340R B2	40% mica filled homopolymer PP, black	20%
GLASS/MINERAL-FILLED PP		
PRODUCT	DESCRIPTION	RECYCLED CONTENT
PP5930R B1	30% glass/mineral filled homopolymer PP, black	25%
PP5940R B131	40% glass/mineral filled homopolymer PP, black	30%
MISC.-FILLED PP		
PRODUCT	DESCRIPTION	RECYCLED CONTENT
PP6850R B38	50% barium sulfate filled, homopolymer 4PP, black	25%
PP6225R E49	25% calcium carbonate, homopolymer PP, grey	25%
UNFILLED PP		
PRODUCT	DESCRIPTION	RECYCLED CONTENT
PP5000R B1	homopolymer PP, black	25%



GEON® is committed to continuously improving our environmental performance, developing innovative, sustainable products, and operating a more efficient business that uses resources wisely and creates value for all stakeholders.

RESILIENCE® R is a prime example of developing a product that helps GEON® and our customers meet our sustainability goals.

SALES@GEON.COM • 1-800-GET-GEON • GEON.COM

Copyright © 2022, GEON Performance Solutions. GEON makes no representations, guarantees, or warranties of any kind with respect to the information contained in this document about its accuracy, suitability for particular applications, or the results obtained or obtainable using the information. Some of the information arises from laboratory work with small-scale equipment, which may not provide a reliable indication of performance or properties obtained or obtainable on larger-scale equipment. Values reported as "typical" or stated without a range do not state minimum or maximum properties; consult your sales representative for property ranges and min/max specifications. Processing conditions can cause material properties to shift from the values stated in the information. GEON makes no warranties or guarantees respecting suitability of either GEON's products or the information for your process or end-use application. You have the responsibility to conduct full-scale end-product performance testing to determine suitability in your application, and you assume all risk and liability arising from your use of the information and/or use or handling of any product. GEON MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, with respect to the information or products reflected by the information. This literature shall NOT operate as permission, recommendation, or inducement to practice any patented invention without permission of the patent owner.