

RESILIENCE® PP5440R B1

GEON Performance Solutions - Polypropylene Homopolymer

Monday, June 17, 2024

General Information

Product Description

The GEON® PP5440R B1 is a Polypropylene Homopolymer (PP Homopolymer) product filled with 40% glass in black color and contains post-industrial resin. The application includes Automotive, Consumer, Industrial, Construction, etc.

General

Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Filler / Reinforcement	• Glass Fiber, 40% Filler by Weight		
Recycled Content	• Post-Industrial (PIR)/Pre-Consumer, 25%		
Features	• General Purpose	• Good Processability	• High Stiffness
Uses	• Automotive Applications • Construction Applications	• Consumer Applications • General Purpose	• Industrial Applications
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.24 g/cm ³	1.24 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	3.5 g/10 min	3.5 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress	11300 psi	78.0 MPa	ASTM D638
Flexural Modulus	970000 psi	6690 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact	1.7 ft-lb/in	89 J/m	ASTM D256
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	314 °F	157 °C	
264 psi (1.8 MPa), Unannealed	298 °F	148 °C	

Notes

¹ Typical properties: these are not to be construed as specifications.