

RESILIENCE® PP5430 A1

GEON Performance Solutions - Polypropylene Homopolymer

Monday, June 17, 2024

General Information

Product Description

The GEON® family of polypropylene- and polyethylene-based products covers a wide range of applications, markets and performance requirements. Standard grades are compounded with calcium carbonate, glass and talc to provide a desired balance of properties including stiffness, durability, impact resistance and heat resistance. Custom grades are available with features such as UV stabilizers, heat stabilizers, custom color, high impact, etc.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Filler / Reinforcement	• Glass Fiber		
Features	• General Purpose		
Uses	• Automotive Applications • Construction Applications	• Consumer Applications • General Purpose	• Industrial Applications
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.15 g/cm ³	1.15 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)	6.0 g/10 min	6.0 g/10 min	ISO 1133
Molding Shrinkage ² (0.0866 in (2.20 mm))	0.50 to 0.80 %	0.50 to 0.80 %	Internal Method
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress	11300 psi	78.0 MPa	ISO 527-2
Flexural Modulus	943000 psi	6500 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact Strength	3.8 ft·lb/in ²	8.0 kJ/m ²	ISO 180
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 psi (0.45 MPa), Unannealed	309 °F	154 °C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	289 °F	143 °C	ISO 75-2/A

Notes

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

² The average mold shrink was derived from 2.2 mm wall thickness. It was not construed as specifications. It may be subject to change due to the complex nature of the injection molding process and the vast differences in equipment and tooling.