

RESILIENCE® PP6415 B279409

GEON Performance Solutions - Polypropylene Copolymer

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	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight		
Features	• Copolymer	• General Purpose	
Uses	• Automotive Applications • Construction Applications	• Consumer Applications • General Purpose	• Industrial Applications
Automotive Specifications	• CHRYSLER MS-DB-500 CPN 3666		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.01 g/cm ³	1.01 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)	9.0 g/10 min	9.0 g/10 min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress (Yield)	7110 psi	49.0 MPa	ISO 527-2
Flexural Modulus	411000 psi	2840 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	6.9 ft-lb/in ²	14 kJ/m ²	ISO 179/1A
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed	234 °F	112 °C	ISO 75-2/A

Processing Information

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	1.0 hr	1.0 hr
Rear Temperature	365 to 392 °F	185 to 200 °C
Middle Temperature	392 to 419 °F	200 to 215 °C
Front Temperature	401 to 428 °F	205 to 220 °C
Nozzle Temperature	401 to 428 °F	205 to 220 °C
Mold Temperature	77 to 131 °F	25 to 55 °C
Back Pressure	1160 psi	8.00 MPa

Notes

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

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