RESILIENCE® TP9120 B601-SM

GEON Performance Solutions - Thermoplastic Polyolefin Elastomer

Tuesday, September 1, 2026

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	• Talc, 20% Filler by Weight		
Additive	• UV Stabilizer		
Features	• High Scratch Resistance	• UV Stabilized	
Uses	• Automotive Applications		
Appearance	• Colors Available		
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties [1]

Physical	Nominal Value (English)		Nominal Value (SI)		Test Method
Density / Specific Gravity	1.05		1.05		ASTM D792
Melt Mass-Flow Rate (MFR)	24	g/10 min	24	g/10 min	ASTM D1238
Molding Shrinkage (0.126 in (3.20 mm))	0.70 to 1.1	%	0.70 to 1.1	%	Internal Method
Mechanical	**Nominal Value (English)**		**Nominal Value (SI)**		**Test Method**
Tensile Strength [2] (Yield)	3630	psi	25.0	MPa	ASTM D638
Flexural Modulus	283000	psi	1950	MPa	ASTM D790
Impact	**Nominal Value (English)**		**Nominal Value (SI)**		**Test Method**
Notched Izod Impact					ASTM D256A
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	2.2	ft·lb/in	120	J/m	
Thermal	**Nominal Value (English)**		**Nominal Value (SI)**		**Test Method**
Deflection Temperature Under Load					ASTM D648
66 psi (0.45 MPa), Unannealed	237	°F	114	°C	
Flammability	**Nominal Value (English)**		**Nominal Value (SI)**		**Test Method**
Burning Rate (0.126 in (3.20 mm))	< 3.9	in/min	< 100	mm/min	ISO 3795

Notes

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

[2] Type I, 2.0 in/min (51 mm/min)

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