RESILIENCE® 18354

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	• Filler	• Talc	
Additive	• Impact Modifier		
Features	• Impact Modified		
Uses	• Automotive Applications • Construction Applications	• Consumer Applications • General Purpose	• Industrial Applications
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Blow Molding	• Extrusion	

Properties [1]

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density / Specific Gravity	1.13		1.13		ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.80	g/10 min	0.80	g/10 min	ISO 1133
Molding Shrinkage (0.126 in (3.20 mm))	0.70 to 1.1	%	0.70 to 1.1	%	ISO 294-4
Mechanical	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Tensile Strength (Yield)	3050	psi	21.0	MPa	ISO 527
Flexural Modulus - Chord	232000	psi	1600	MPa	ISO 178
Impact	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Charpy Notched Impact Strength (73°F (23°C))	29	ft·lb/in²	60	kJ/m²	ISO 179
Thermal	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Deflection Temperature Under Load					
66 psi (0.45 MPa), Unannealed	219	°F	104	°C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	129	°F	54.0	°C	ISO 75-2/A

Notes

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

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