RESILIENCE® TP9130 A954

GEON Performance Solutions - Thermoplastic Polyolefin Elastomer

Tuesday, June 18, 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	• Talc, 30% Filler by Weight		
Uses	• Automotive Applications		
Automotive Specifications	• CHRYSLER MS-DC-265		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	1.12	g/cm³	1.12	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	12	g/10 min	ISO 1133
Molding Shrinkage (0.126 in (3.20 mm))	0.60 to 0.90	%	0.60 to 0.90	%	Internal Method
Mechanical	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Tensile Stress (Yield)	3480	psi	24.0	MPa	ISO 527-2
Flexural Modulus	326000	psi	2250	MPa	ISO 178
Impact	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Notched Izod Impact Strength (73°F (23°C))	5.7	ft·lb/in²	12	kJ/m²	ISO 180
Hardness	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Durometer Hardness (Shore D, 10 sec)	61		61		ASTM D2240
Thermal	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Deflection Temperature Under Load					ISO 75-2/A
264 psi (1.8 MPa), Unannealed	160	°F	71.0	°C	

Notes

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