

## GEON® Polymax T01-298A

GEON Performance Solutions - Thermoplastic Elastomer

Thursday, February 29, 2024

## General Information

**Product Description:** 

Color: Natural

Features: Excellent Abrasion Resistant, Easy Processing, Low Compression Set, Recyclable.

Applications: Industrial, Consumables, Wheels and Casters. Overmold to PP.

## **Typical Properties**

Physical	English		SI Metric		Test Method
Hardness (Shore D, 10 sec)	44	D	44	D	ASTM D2240
Specific Gravity	0.88	g/cm <sup>3</sup>	0.88	g/cm <sup>3</sup>	ASTM D792
Mechanical	English		SI Metric		Test Method
Tensile Strength	2713	psi	18.71	MPa	ASTM D412
Tensile Elongation at Break	530	%	530	%	ASTM D412
Tensile Stress @100% Strain	1862	psi	12.84	MPa	ASTM D412
Tensile Stress @300% Strain	2095	psi	14.45	MPa	ASTM D412
Compression Set, 22hr@23°C	36	%	36	%	ASTM D395
Apparent Viscosity					
392°F (200°C), 11170 1/s	28.2	Pa.s	28.2	Pa.s	ASTM D3835
392°F (200°C), 1340.5 1/s	118.1	Pa.s	118.1	Pa.s	ASTM D3835

## INJECTION PROCESSING PARAMETERS

Injection Molding	English		SI Metric		
Zone 1 Temperature (Feed)	356-383	°F	180-195	°C	
Zone 2 Temperature (Middle)	374-400	°F	190-205	°C	
Zone 3 Temperature (Front)	383-420	°F	195-215	°C	
Zone 4 Temperature (Nozzle)	383-428	°F	195-220	°C	
Mold Temperature	60 to 80	°F	16 to 27	°C	
Back Pressure	50 to 150	psi	0.34 to 1.0	Мра	
Screw Speed	25 to 75	rpm	25 to 75	rpm	
Suggested Maximum Regrind	20%		20%		

Drying is not typically required. Drying Temperature is 195°F (90°C) for 2 hours if there is surface moisture. Purge thoroughly before and after use of this product with a low melt flow polyethylene (PE) or polypropylene (PP). Regrind levels up to 20% can be used with Polymax TPE with minimum property loss.

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<sup>(1)</sup> Data herein is typical and not to be construed as specifications.

<sup>(2)</sup> Unless otherwise specified, all data listed is for natural or black colored materials. Pigments can affect properties.