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^3	0.88 g/cm^3	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 Mpa
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.~~

(1) Data herein is typical and not to be construed as specifications.

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