

GEON® Polymax N01-097C BLK

GEON Performance Solutions - Thermoplastic Elastomer

Thursday, February 29, 2024

General Information

Product Description:

Color: Black

Features: Soft Rubbery Feel, No-Slip Grip, Good Weather Resistance, Easy Processing, Recyclable Material.

Applications: Overmolding to Nylon materials for grips and handles.

Typical Properties

Physical	English	SI Metric	Test Method
Hardness (Shore A, 10 sec)	55 A	55 A	ASTM D2240
Density	1.08 g/cm ³	1.08 g/cm ³	ASTM D792
Mechanical	English	SI Metric	Test Method
Tensile Strength	502 psi	3.46 MPa	ASTM D412
Tensile Elongation at Break	443 %	443 %	ASTM D412
Tensile Stress @100% Strain	267 psi	1.84 MPa	ASTM D412
Tensile Stress @300% Strain	438 psi	3.02 MPa	ASTM D412
Apparent Viscosity			
392°F (200°C), 11170 1/s	18.9 Pa.s	18.9 Pa.s	ASTM D3835
392°F (200°C), 1340.5 1/s	88.3 Pa.s	88.3 Pa.s	ASTM D3835

PROCESSING PARAMETERS

Injection Molding	English	SI Metric
Zone 1 Temperature (Feed)	430-470 °F	220-245 °C
Zone 2 Temperature (Middle)	470-490 °F	245-255 °C
Zone 3 Temperature (Front)	490-510 °F	255-265 °C
Zone 4 Temperature (Nozzle)	490-520 °F	255-270 °C
Mold Temperature	70 to 120 °F	21 to 49 °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 %

Typical drying conditions are 2 hours at 160 - 170°F.

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.

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