

JEDA Polymers Introduces NEW “E” Series Line of Polyamide Compounds

“E” series technology brings high toughness, tear resistance, and elastic properties to polyamide compounds.

Dyersville, IA (January 14, 2025)— JEDA Polymers LLC, an independent compounder of specialty grade engineered thermoplastics and pre-colored resins, has launched a new family of “E” series polyamide products. Many of these grades incorporate specialty additives that produce unique resins that excel in the firearms, defense, and emergency service industries, and for first responders.

Toughness is a key attribute of many polymer firearm applications. JEDA Polymers has pioneered new products to maximize toughness without compromising other important or critical attributes such as dimensional stability, stiffness, and creep. These resins improve the yield strain to maximize the ultimate toughness (T_U) of the resin.

*For more information on “E” series products
call 563-217-4288 or email E_series@jedapolymers.com*



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JEDA
Polymers, LLC
Engineered Thermoplastics

Key points about the stress-strain curve area:

- **Toughness:**

The total area under the curve indicates the material's overall toughness.

- **Modulus of Resilience:**

The area under the curve up to the elastic limit represents the material's modulus of resilience, which is the energy stored in the elastic region.

- **Interpretation:**

A larger area under the curve signifies a more ductile material, capable of absorbing more energy before failure.

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The Stress-Strain Chart below is a comparison of a long glass fiber (LGF) product to a JEDA short glass product. In the example, the JEDA short glass material absorbed 95% more energy than the long glass fiber material.

The area under a stress-strain curve represents the energy per unit volume that a material can absorb before it fractures, essentially measuring its toughness; meaning, the larger the area, the more energy the material can absorb before failure.

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