AMPLIFY™ GR 216 Functional Polymer for Nylon Toughening
MAH-g Elastomer Offering Excellent Impact Strength

When seeking a toughening agent for general-purpose to super-tough applications, AMPLIFY™ GR 216 Functional Polymer by Dow is an excellent, compatible choice for nylon, as well as other engineered resins. The addition of AMPLIFY™ GR 216 to your compound can help enable an end product with an ideal impact efficiency.

Polyamide (nylon) thermoplastic resins are widely used and offer an excellent balance of processability and performance properties. The most popular polyamides are nylon 6 (PA 6) and nylon 6,6 (PA 6,6). These resins often need toughening or enhanced impact performance at ambient or low temperatures for applications ranging from general purpose (2 to 4 ft-lb/in or approximately 100 to 210 J/m), to intermediate tough (3 to 6 ft-lb/in or approximately 160 to 320 J/m) and super-tough (exceeding 15 ft-lb/in or 800 J/m).

AMPLIFY™ GR 216 Functional Polymer provides both compatibility and toughening in nylon blends with compounding best accomplished using a twin-screw extruder. It features a density of g/cc of 0.87, a melt index of 1.25, and durometer hardness, shore A(D) at 1 sec. of 77 (22).

AMPLIFY™ GR 216 can be used in the following applications, as well as many more.

- Transportation applications such as hood releases, gas caps, trim clips, cables and straps, oil pans, air dams, steering column shields, motorcycle windshields, etc.
- Consumer applications such as heavy-duty suitcases, bike wheels, ski boots, kitchen utensils, cable ties, etc.
- Hardware and furniture parts
- Industrial machinery parts
- Materials handling systems
- Electrical connectors and switches

AMPLIFY™ GR 216 is manufactured in North America by The Dow Chemical Company (Dow), a trusted supply leader. Dow also offers several other functional polymers including AMPLIFY™ EA, AMPLIFY™ IO, and AMPLIFY™ TY for a variety of applications. Learn more at www.dowelastomers.com.
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