

Engineered Polymer Formulations for Firearm Components

At Avient, we focus on solving your material science challenges. This includes using our comprehensive portfolio of engineered polymers, world-class technical services, and proven expertise in firearm components to help give you a competitive edge. From custom solutions to innovative design, we

understand how to integrate specialty materials into your projects to create reliable and comfortable products that deliver outstanding performance and a remarkable customer experience.

Explore these intriguing possibilities.

AESTHETIC APPEAL

Custom Colors, Special Effects, Color Stability

SOLUTION: Custom Polymer Colorants, Pre-Colored Materials

PERFORMANCE & FUNCTION

Custom Weight, Toughness, Reduced Machining, Metal Replacement, Thermal Stability, Wear Resistance

SOLUTION: Structural Reinforced Formulations, Composite Pultruded Technology, High-Density Modified Formulations, Internally Lubricated Formulations

TACTILE EXPERIENCE

Soft Touch, Wet Grip

SOLUTION: Thermoplastic Elastomers

DYNAMIC COMFORT

Shock Absorption, Vibration Damping

SOLUTION: Thermoplastic Elastomers

The featured technologies that follow are complemented by additional solutions at Avient, including internally lubricated polymers, reinforced composites, and pre-colored formulations and/or colorants in custom or standard firearms colors. When ready-made materials don't meet your unique needs—which may require customization or development—we've got you covered.

ENGINEERED POLYMER SOLUTIONS - FEATURES & CHARACTERISTICS

Resin	Nymax™ Formulations	Characteristics	Applications
PA6	GF 600 A 14 Natural	14% Glass Reinforced	Stocks, Frames, Receivers, Handguards, Forearms, Picatinny Rails, Grips
PA6	GF 600 A 33 Natural	33% Glass Reinforced, Heat Stabilized	
PA6	NM6000-0026 HI BK	33% Glass Reinforced, Toughened	
PA6	GF 600 A 60 UV Black	60% Glass Reinforced, Heat Stabilized	
PA6	GF 600 A 33 Black 28 V	33% Glass Reinforced, Heat Stabilized, UV	
PA6	1010 A Black 13	Super Toughened, Heat Stabilized	
PA6	1010 A Natural	Super Toughened, Heat Stabilized	
PA6	NM6000-00013 HS UV Black	50% GF, High Flow PA6	
PA66	NM6600-0018 HI HS 14 Nat	14% Glass Reinforced, Toughened, Heat Stabilized	
PA66	GF 1200 A 33 HS Black 22	33% Glass Reinforced, Heat Stabilized	
PA66	GF 1200 A 33 HS Natural	33% Glass Reinforced, Heat Stabilized	
PA66	NM6600-0019 HI HS 33 Nat	33% Glass Reinforced, Toughened, Heat Stabilized	
PA66	NM6600-0020 HI HS 43 Nat	43% Glass Reinforced, Heat Stabilized	
PA66	1200 A L Natural	Unreinforced	
PA66	1200 A ZIP 22 Natural	Unreinforced	
PA66	NM 1200 MT HS Black	Toughened, Heat Stabilized	
PA66	NM 1200 MT HS Natural	Toughened, Heat Stabilized	

Specialty Products	Color	Characteristics	Applications
Edgetek™ ET6200-0031 Black	Black	20% Glass Reinforced PA12	Stocks, Frames, Receivers, Handguards, Forearms, Picatinny Rails, Bolt Carriers, Grips
Gravi-Tech™ X GT 33991-05A-01-3	Copper	3sg, PA6, Copper	
Gravi-Tech™ X GT-30197-001-P4	Gray	4sg, PA610, Tungston	
Gravi-Tech™ GT 6400-0001 GRV 5.0	Black	5sg, PA610, Tungston	

Thermoplastic Elastomers	Durometer	OM Substrate	Color	Characteristics	Applications
OnFlex™ AF 7210	25-90A	PP	Black/Natural	General Purpose with UV Stabilizer	Grips, Recoil Pads, Gun Straps
DynaFlex™ G7900	30-90A	PP	Black/Natural	General Purpose	
Versaflex™ XP 2850	50A	PP	Natural	Wet Grip Technology	
Versaflex™ VDT 4202-40	40A	PP	Black/Natural	Vibration Damping	
Versaflex™ VDT 5120-40	40A	PA	Black/Natural	Vibration Damping	
Versaflex™ OM6059-9	60A	PA	Black	High Flow	
Versaflex™ OM6258	60A	PA	Black/Natural	Enhanced Bond	

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