

» PRODUCT SELECTION GUIDE

NYLON SOLUTIONS

ENGINEERED
THERMOPLASTICS





Nylon (polyamide) solutions from Avient encompass both custom and standard grades from the prime Bergamid™/Nymax™ portfolios and post-industrial recycled grades from the Nymax™ PIR portfolio. These materials, based on nylon 6 (PA6) and nylon 66 (PA66) polymers, provide high temperature performance with exceptional strength and durability. Formulations can be customized with a range of attributes.

| CUSTOMIZED NYLON FEATURES | | | | | | | | |
|---------------------------|----------|--------------------------------------|------------------|-------------|------------------|--------------------|-----------------|--------------------------------------|
| Description | Base | Filler | Impact Modifiers | Lubrication | UV Stabilization | Heat Stabilization | Flame Retardant | Approvals/ Listings |
| Bergamid/ Nymax | Prime | Glass Fiber Glass Bead Mineral | ✓ | ✓ | ✓ | ✓ | ✓ | Automotive Approvals UL Listed |
| Nymax PIR | Recycled | Glass Fiber Mineral | ✓ | ✓ | ✓ | ✓ | | Automotive Approvals NSF Listings |

BERGAMID/NYMAX PRIME NYLON GRADES

The Bergamid/Nymax series of PA6 and PA66 polymers are designed to meet critical performance requirements for demanding applications. They provide high mechanical performance within tight specifications. Bergamid/Nymax solutions meet stringent regulations in applications spanning many industries, including transportation, appliance, and electrical & electronics.




NYMAX PIR - POST INDUSTRIAL RECYCLED GRADES

The Nymax PIR series of recycled PA6 and PA66 polymers are suited for a wide range of applications, similarly to prime Bergamid/Nymax grades. These materials deliver great performance and processing characteristics, comparable to prime nylon grades, and with the added benefit of being formulated with post-industrial recycled content.





| PA6 GRADES | RESIN TYPE | | GLASS FILLER | |
|---------------------------|---------------------------------|-------------------------------|--------------|---------|
| | Bergamid/Nymax (Prime Nylon) | Nymax PIR (Recycled Nylon) | Unfilled | 10%–60% |
| Standard Grade | ✓ | ✓ | ✓ | ✓ |
| Heat Stabilized Grades | ✓ | ✓ | ✓ | ✓ |
| Mineral Reinforced Grades | ✓ | | ✓ | ✓ |
| Mineral/Glass Hybrids | ✓ | ✓ | ✓ | ✓ |
| Flame Retardant Portfolio | | | | |
| V0 | ✓ | | ✓ | ✓ |
| V2 | ✓ | | ✓ | ✓ |
| Impact Modified Grades | ✓ | | ✓ | ✓ |
| UV Stabilized | ✓ | ✓ | ✓ | ✓ |
| PA66 GRADES | RESIN TYPE | | GLASS FILLER | |
| Standard Grade | ✓ | ✓ | ✓ | ✓ |
| Heat Stabilized Grades | ✓ | ✓ | ✓ | ✓ |
| Mineral Reinforced Grades | ✓ | | ✓ | ✓ |
| Mineral/Glass Hybrids | ✓ | | ✓ | ✓ |
| Flame Retardant Portfolio | | | | |
| V0 | ✓ | | ✓ | ✓ |
| V2 | ✓ | | ✓ | ✓ |
| Impact Modified Grades | ✓ | ✓ | ✓ | ✓ |
| UV Stabilized | ✓ | ✓ | ✓ | ✓ |



To learn more about our PA6
and PA66 solutions, contact
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