

Nylon 612 Reinforced Grades

| Property | Unit | PA 612- I | PA 612- II | A5G6301 | A5G7301 | A5RG7301 |
|-------------------------|-------------------|-------------|-------------|---------|---------|----------|
| Viscosity Number | g/ml | 105 +/-15 | 180+/-20 | | | |
| Tensile Strength | Mpa | >50 | >50 | 140 | 143 | 108 |
| Elongation At Break | % | >150 | >150 | 5 | 4 | 7 |
| Charpy Notch Impact | KJ/m ² | | | 15 | 10 | 34 |
| Bending Strength | Mpa | >30 | >30 | | | |
| Charpy Non-Notch Impact | KJ/m ² | | | 82 | 71 | 100 |
| Flexural Strength | MPa | | | 195 | 199 | 146 |
| Flexural Modulus | MPa | | | 6500 | 7500 | 5000 |
| Granularity | N/g | 30 -50 | 30 -50 | | | |
| Loss on Drying | % | < 1 | < 1 | | | |
| Relative Density | g/cm ³ | 1.04 - 1.08 | 1.04 - 1.08 | | | |
| Melting Pt | C | 205 - 215 | 205 - 215 | | | |
| Ash Content | % | 0 | 0 | 30 | 35 | 35 |

The addition of glass fibers to nylon results in significant increases in tensile strength, modulus, heat distortion temperature, abrasion resistance, and dimensional stability. The enhanced properties allow for under the hood auto applications, etc.

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