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| Base Resin | NYLON 12 Alloys (Polyamide 12) |
| Compound Type |  Compound 1050, 1066, and 1080 Series - High Density |
| Processing Method | Injection Molding |

Process Guidelines

| Processing Conditions | Material Drying |
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| <ul style="list-style-type: none"> ● Melt Temperature Range..... 400 - 490 °F ● Mold Temperature Range..... 135 - 185 °F ● Injection Pressure..... As required ● Pack (Hold) Pressure..... 65 - 75% of Inj. Psi ● Back Pressure..... 15 - 25 psi ● Injection Speed..... Medium - Fast ● Screw Speed..... 100 - 250 rpm ● Fill Time..... 1.0 - 2.0 in. / sec. ● Pack (Hold) Time²..... 10 - 15 sec. ● Cooling Time..... As required ● Cushion..... .25 - .50 in. | <ul style="list-style-type: none"> ● Dryer Type(s)..... Dehumidifying ● Drying Temperature Range... 165 °F ● Typical Drying Time¹..... 4 hrs ● Do Not Exceed..... 200 °F ● Dryer Dew Point..... -20 to -40°F ● Minimum Air Flow..... 0.8 - 1.0 CFM ● Properly Functioning..... Dessicant Beds Filters Volatiles Trap |
| Molding Machine Requirements | Safety / Purging |
| <ul style="list-style-type: none"> ● Screw L/D..... 20:1 min. ● Screw Compression Ratio.... 2.5:1 min. ● Feed Throat..... Cooled ● Nozzle Type..... Reverse taper ● Check Ring Type..... Free flow ● Typical Clamp Tonnage..... 2.5 - 4.0 tons/in² | <ul style="list-style-type: none"> ● Maintain adequate ventilation. ● Wear safety glasses & protective clothing. ● Do not mix with other materials. ● Avoid excessive residence time in the barrel. (Purge if extended residence time is anticipated) ● Use extreme caution at melt temp. > 600°F |
| Abrasion Resistant Screw, Barrel & Check Ring | Purge with high viscosity HDPE or high temperature commercial purge compound as recommended. |

Notes

¹ Typical Drying time assumes unopened packaging and utilization of a dehumidifying dryer with a dewpoint of -40° with sufficient air flow.

² Pack time can depend on wall thickness and gate design

The processor of these materials is advised and cautioned to make an independent determination and assessment of the safety and suitability of the material for the specific use in question and is further advised against relying on the information herein as it may relate to any specific use or application. Because conditions under which this material may be processed, tested or used cannot be anticipated, no warranty is given, either expressed or implied, as to the accuracy or reproducibility of this information or for the fitness of this material for any particular use. This material is sold with the express understanding that purchasers, processors or other users of this material have sole responsibility, through performance of their own testing, to determine the suitability of this material for any particular use.