

Ecomass Compounds

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Base Resin	NYLON 12 Alloys (Polyamide 12)	
Compound Type	Ecomass Compound 1050, 1066, and 1080 Series - High Density	
Processing Method	Injection Molding	
	Process G	uidelines
Processing Conditions		Material Drying
 Melt Temperature Range Mold Temperature Range Injection Pressure	60 - 85C (135 - 185F)	 Dryer Type(s) Dehumidifying Drying Temperature Range 75 - 80C (165 - 175F)

• Pack (Hold) Pressure	65 - 80% of IP
Back Pressure	3 -7 bar (50 - 100 psi)

- Injection Speed...... Medium FastScrew Speed...... 50 100 rpm
- Pack (Hold) Time²...... Max. part weight
 Cooling Time...... As required
- Cushion...... 6 12mm (0.25 0.50 in.)

- Typical Drying Time¹..... 4 6 hours
- Do Not Exceed...... 95C (200F), >3 hrs
- Dryer Dew Point..... -30 to -40C
- Minimum Air Flow...... 0.8 1.0 CFM
- Properly Functioning...... Dessicant Beds
 Filters
 Volatiles Trap

Molding Machine Requirements

- 2 Colon Compression (aug.... 210.) Illin
- Feed Throat..... Cooled
- Nozzle Type...... Reverse taperCheck Ring Type..... Free flow
- Typical Clamp Tonnage...... 2.5 4.0 tons/in²

Safety / Purging

- 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. > 350C

Abrasion Resistant Screw, Barrel & Check Ring

Purge with high viscosity HDPE or high temperature commercial purge compound as recommended.

Notes

Material must be dried to a Moisture Level of < 0.2% for best property retention

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.

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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