

Ecomass Compounds

Base Resin	NYLON 12 (Polyamide 12)	
Compound Type	Ecomass Compound 1700 Series - High Density	
Processing Method	Injection Molding	
Process Guidelines		
Processing Conditions		Material Drying
 Melt Temperature Range Mold Temperature Range Injection Pressure Pack (Hold) Pressure Back Pressure Injection Speed Screw Speed Fill Time Pack (Hold) Time² Cooling Time Cushion 	60 - 85C (135 - 185F) As required 65 - 80% of IP 3 -7 bar (50 - 100 psi) Medium - Fast 50 - 100 rpm 2.5 - 5 cm/s (1 - 2"/s) Max. part weight As required	 Dryer Type(s) Dehumidifying Drying Temperature Range 75 - 80C (165 - 175F) Typical Drying Time¹ 4 - 6 hours Do Not Exceed 95C (200F), >3 hrs Dryer Dew Point30 to -40C Minimum Air Flow 0.8 - 1.0 CFM Properly Functioning Dessicant Beds Filters Volatiles Trap
Molding Machine Requirements		Safety / Purging
 Screw L/D Screw Compression Ratio Feed Throat Nozzle Type Check Ring Type Typical Clamp Tonnage 	2.5:1 min. Cooled Reverse taper Free flow	 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, I	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 ^o with sufficient air flow. ² Pack time can depend on wall thickness and gate design 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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