

## **Ecomass Compounds**

Base Resin	Polyether Block Amide (PEBA)	
Compound Type	Ecomass Compound 1003, 1005, 1007 Series - High Density	
Processing Method		Injection Molding
Process Guidelines		
Processing Co	nditions	Material Drying
<ul> <li>Melt Temperature Range</li> <li>Mold Temperature Range</li> <li>Injection Pressure</li> <li>Pack (Hold) Pressure</li> <li>Back Pressure</li> <li>Injection Speed</li> <li>Screw Speed</li> <li>Fill Time</li> <li>Pack (Hold) Time</li> <li>Cooling Time</li> <li>Cushion</li> </ul>	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	<ul> <li>Dryer Type(s) Dehumidifying</li> <li>Drying Temperature Range 75 - 80C (165 - 175F)</li> <li>Typical Drying Time1 4 - 6 hours</li> <li>Do Not Exceed 95C (200F), &gt;3 hrs</li> <li>Dryer Dew Point30 to -40C</li> <li>Minimum Air Flow 0.8 - 1.0 CFM</li> <li>Properly Functioning Dessicant Beds Filters Volatiles Trap</li> </ul>
Molding Machine Re	equirements	Safety / Purging
<ul> <li>Screw L/D</li> <li>Screw Compression Ratio</li> <li>Feed Throat</li> <li>Nozzle Type</li> <li>Check Ring Type</li> <li>Typical Clamp Tonnage</li> </ul>	2.5:1 min. Cooled Reverse taper Free flow	<ul> <li>Maintain adequate ventilation.</li> <li>Wear safety glasses &amp; protective clothing.</li> <li>Do not mix with other materials.</li> <li>Avoid excessive residence (Purge if extended residence time is anticipated)</li> <li>Use extreme caution at melt temp. &gt; 350C</li> </ul>
Abrasion Resistant Screw, E	-	Purge with high viscosity HDPE or high temperature commercial purge compound as recommended.
<sup>1</sup> Typical Drying time assumes unopened packaging and utilization of a dehumidifying dryer with a dew point of -40° with sufficient air flow.		

<sup>2</sup> 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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