

Preliminary Data Sheet

GC green 977 MI T25

Heat-distortion resistant injection moulding compound with 100 % biobased carbon content. Home compostable, soil degradable and with a high oxygen barrier, especially suitable for coffee capsule production

Mechanical Properties

Property	Norm	Units	Value
Density	ISO 1183	g/cm ³	1.45
MVR	ISO 1133 (190°C/5kg)	cm ³ /10min	70 ± 20
E-Modulus	ISO 527	MPa	2500
Tensile Strength	ISO 527	MPa	23
Elongation at break	ISO 527	%	5.7
Charpy unnotched _{23°C}	ISO 179/1eU	kJ/m ²	12
Charpy notched _{23°C}	ISO 179/1eA	kJ/m ²	3

Thermal Properties

HDT B	ISO 75-1 (0,45 MPa)	°C	>100
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Processing Guidelines

Melt Temperature	°C	140-175
Mold Temperature	°C	90
Drying Temperatur	°C	80
Drying Time	h	4
Moisture Content	%	0.02

Storage and shelf life

GC green 977 MI T25 should be stored in a dry and cool environment at temperatures below 40 °C to prevent moisture uptake. Product should be kept sealed until ready for loading into the blending and/or drying system. Bulk resin that is stored in closed silos and hoppers for extended periods (more than 6 h) should be kept purged with dry air or nitrogen to minimize moisture uptake. In case of outside storage, the unopened container should be brought into the production area and allowed to equilibrate for a minimum of 24 hours before opening to prevent excessive condensation. It is recommended to use the material before 6 months.

