



# Enester® EM-180-GR2-J1-000

## Ravago Manufacturing Europe - Polybutylene Terephthalate

### General Information

#### Product Description

15% Glass Fibre Reinforced , Polybutylene Terephthalate Compound

Key Features: ENESTER EM-180-GR2-J1-000 is heat stabilized PBT compound with good strength and stiffness properties

Process Method: Injection moulding

Uses: Recommended for general applications and purposes

#### General

Material Status	• Commercial: Active		
Availability	• Europe		
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• General Purpose	• Good Strength	
	• Good Stiffness	• Heat Stabilized	
Uses	• General Purpose		
Processing Method	• Injection Molding		

### Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm <sup>3</sup>	ISO 1183/A
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5600	MPa	ISO 527-1
Tensile Stress (Break)	95.0	MPa	ISO 527-2
Tensile Strain (Break)	3.5	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	6.5	kJ/m <sup>2</sup>	ISO 179/1A
Charpy Unnotched Impact Strength	38	kJ/m <sup>2</sup>	ISO 179/1U
Notched Izod Impact Strength (23°C)	6.0	kJ/m <sup>2</sup>	ISO 180/1A
Unnotched Izod Impact Strength	30	kJ/m <sup>2</sup>	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 0.45 MPa, Unannealed	215	°C	ISO 75-2/B
Deflection Temperature Under Load 1.8 MPa, Unannealed	190	°C	ISO 75-2/A
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.8 mm		HB	
1.6 mm		HB	
3.2 mm		HB	

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Injection	Nominal Value	Unit
Drying Temperature	120 to 140	°C
Drying Time	2.0 to 4.0	hr
Rear Temperature	230 to 245	°C
Middle Temperature	235 to 250	°C
Front Temperature	240 to 260	°C
Nozzle Temperature	240 to 260	°C
Mold Temperature	40 to 80	°C

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.