



## Enester EM-180-GR9-J1-000

### ENESTER-E

**Product Description :** 50% Glass Fibre Reinforced, Polybutylene Terephthalate Compound

**Key Features :** ENESTER EM-180-GR9-J1-000 is heat stabilized and lubricated PBT compound with good strength and stiffness properties

**Process Method :** Injection moulding

**Uses :** Recommended for general applications and purposes

**Revision Date :** 01.01.2023

	Value	Unit	Standard
<b>Physical</b>			
Density	1,70	gr / cm3	ISO 1183 1-A
<b>Mechanical</b>			
Tensile Stress at Break	160	MPa	ISO 527-1
Elongation at Break	1,8	%	ISO 527-1
Tensile Modulus	15300	MPa	ISO 527-1
Izod Impact Strength (Notched) (23°C)	11	kJ/m2	ISO 180/1A
Charpy Impact Strength (Notched)	12	kJ/m2	ISO 179/1A
Flexural Modulus	13800	Mpa	ISO 178
Flexural Strength	220	Mpa	ISO 178
Izod Impact Strength (Unnotched)	40	kJ/m2	ISO 180/1A
Charpy Impact Strength (Unnotched)	43	kJ/m2	ISO 179/1U
<b>Thermal</b>			
HDT (1.8 Mpa)	210	°C	ISO 75A
Vicat Softening Point ( 50°C/50N )	215	°C	ISO 306
Vicat Softening Point ( 120°C/10N )	220	°C	ISO 306
<b>Flammability</b>			
Flammability (1,6 mm)	HB	*	UL 94
Flammability ( 3,2 mm )	HB	*	UL 94
Flammability (0,8 mm)	HB	*	UL 94



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#### Electrical

CTI	>450	V	IEC112
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#### Drying Condition

Drying Time(hr)	2-4
Drying Temperature(°C)	110-130

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#### Molding Condition (°C)

1st Zone (hopper)(°C)	230-245
2nd Zone(°C)	235-250
3rd Zone(°C)	240-260
Nozzle(°C)	240-260
Mold Temperature(°C)	50-90

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#### Important Notice;

The above results are obtained from the tests conducted in Ravago Petrokimya laboratories on injection molded ISO samples and cannot be used directly to determine end-use or design specification. Datasheet values represent a statistical average of product properties and they may be subject to change as new information becomes available. Customers and other users should make their own independent determination that the product is suitable for the intended use. Ravago Petrokimya accepts no responsibility for results obtained by the application of this information and disclaims all warranties that might arise in connection with this information.