



Enester EM-451-GR3-J1-000

ENESTER-E

Product Description : 20% Glass Fiber Reinforced, Impact Modified, Polybutylene Terephthalate Compound

Key Features : ENESTER EM-451-GR3-J1-000 is heat stabilized and lubricated PBT compound with excellent toughness and stiffness properties

Process Method : Injection moulding

Uses : Recommended for general applications & purposes.

Revision Date : 01.01.2023

	Value	Unit	Standard
Physical			
Density	1,38	gr / cm3	ISO 1183 1-A
Mechanical			
Tensile Stress at Break	100	MPa	ISO 527-1
Elongation at Break	3	%	ISO 527-1
Tensile Modulus	6500	MPa	ISO 527-1
Izod Impact Strength (Notched) (23°C)	11	kJ/m2	ISO 180/1A
Charpy Impact Strength (Notched)	11	kJ/m2	ISO 179/1A
Flexural Modulus	4700	Mpa	ISO 178
Flexural Strength	140	Mpa	ISO 178
Izod Impact Strength (Unnotched)	45	kJ/m2	ISO 180/1A
Thermal			
HDT (0.45 Mpa)	205	°C	ISO 75B
HDT (1.8 Mpa)	180	°C	ISO 75A
Flammability			
Flammability (1,6 mm)	HB	*	UL 94

Drying Condition

Drying Time(hr) 2-4



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Drying Temperature(°C)	120-140
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Molding Condition (°C)

1st Zone (hopper)(°C)	230-245
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2nd Zone(°C)	235-250
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3rd Zone(°C)	240-260
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Nozzle(°C)	240-260
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Mold Temperature(°C)	40-80
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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.