



Enester EM-584-GR5-V0-000

ENESTER-E

Product Description : 30% Glass Fibre Reinforced, Halogenated Flame Retardant, Polybutylene Terephthalate Compound

Key Features : ENESTER EM-584-GR5-V0-000 is UL 94 FR V0, high lubricated and heat stabilized PBT compound with good impact and stiffness properties

Process Method : Injection moulding

Uses : Recommended for automotive applications

Revision Date : 01.01.2023

	Value	Unit	Standard
Physical			
Density	1,67	gr / cm3	ISO 1183 1-A
Mechanical			
Tensile Stress at Break	130	MPa	ISO 527-1
Elongation at Break	2	%	ISO 527-1
Tensile Modulus	11000	MPa	ISO 527-1
Izod Impact Strength (Notched) (23°C)	8,5	kJ/m2	ISO 180/1A
Charpy Impact Strength (Notched)	8,5	kJ/m2	ISO 179/1A
Flexural Modulus	9900	Mpa	ISO 178
Flexural Strength	200	Mpa	ISO 178
Izod Impact Strength (Unnotched)	45	kJ/m2	ISO 180/1A
Charpy Impact Strength (Unnotched)	45	kJ/m2	ISO 179/1U
Thermal			
HDT (0.45 Mpa)	220	°C	ISO 75B
HDT (1.8 Mpa)	200	°C	ISO 75A
Flammability			
Flammability (1,6 mm)	V0	*	UL 94



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Glow Wire Flammability Index GWFI (3 mm)	960	°C	IEC 60695-2-12
Glow Wire Flammability Index GWFI (1 mm)	960	°C	IEC 60695-2-12
Flammability (3,2 mm)	V0	*	UL 94
Flammability (0,8 mm)	V0	*	UL 94
Glow Wire Flammability Index GWFI (2 mm)	960	°C	IEC 60695-2-12
Flammability (1,6 mm)	5VA	5VA/5VB	UL94-5VA-5VB
Flammability (3,2 mm)	5VA	5VA/5VB	UL94-5VA-5VB

Electrical

CTI	200	V	IEC 60112
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Drying Condition

Drying Time(hr)	2-4
Drying Temperature(°C)	120-140

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)	40-80

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.