ENESTER EM 180-GR5-HR-900

ENESTER-E

Product Description : 30% Glass Fiber Reinforced, Hydrolysis Resistant, Black Color, Polybutylene Terephthalate Compound

Key Features : ENESTER EM-180-GR5-HR-900 is a hydrolysis stabilized according to JEDEC STANDARD No 22-A110 and heat stabilized PBT compound with good strength and stiffness properties

Process Method : Injection moulding

Uses : Recommended for general applications and purposes

Revision Date : 01.01.2024

	Value	Unit	Standard
Physical			
Density	1,51	gr / cm3	ISO 1183 1-A
Mechanical			
Tensile Stress at Break	135	MPa	ISO 527-1
Elongation at Break	2,5	%	ISO 527-1
Tensile Modulus	10500	MPa	ISO 527-1
Izod Impact Strength (Notched) (23°C)	9	kj/m2	ISO 180/1A
Charpy Impact Strength (Notched)	9	kj/m2	ISO 179/1A
Flexural Modulus	8000	Mpa	ISO 178
Flexural Strength	190	Mpa	ISO 178
Izod Impact Strength (Unnotched)	51	kj/m2	ISO 180/1A
Charpy Impact Strength (Unnotched)	55	kj/m2	ISO 179/1U
Charpy Impact Strength (Unnotched (-30°C)	68	kj/m2	ISO 179/1
Charpy Impact Strength notched (-30°C)	8	kj/m2	ISO 179/1
Thermal			
HDT (0.45 Mpa)	220	°C	ISO 75B
HDT (1.8 Mpa)	205	°C	ISO 75A
Vicat Softening Point (50°C/h & 50 N)	215	°C	ISO 306 Method B50

Data Sheet

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Vicat Softening Point (120°C/h & 10 N)	220	°C	ISO 306 Method A120
Flammability			
Flammability (1,6 mm)	HB	*	UL 94
Flammability (3,2 mm)	HB	*	UL 94
Flammability (0,8 mm)	HB	*	UL 94

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.